

DES calls for regional in-service machinery

by Judith Judd
Regional machinery to coordinate in-service training is urgently needed, says the Department of Education and Science in its latest annual paper for the year. The paper says that there is a risk of increasing isolation and fragmentation in school-based training. This and other forms of in-service training should therefore be able to draw on support from universities, institutions of higher education, teachers' centres, subject associations and other agencies.

The three and four-year courses give little enough time for the acquisition of the necessary skills and there is a pressing need for centrally planned and supervised induction and subsequent in-service training. For those who take a one-year postgraduate certificate of education course the need is even more urgent.

In-service training is also vital to keep more experienced teachers up to date. Here, the paper suggests, school-based training has an important part to play "since it takes into account the immediate circumstances and constraints of a school".

The paper also points out that "the mutually profitable partnership with schools that the training

institutions have sought has been in some cases too exclusively based on a view of education that properly field children in the focus of attention but without relating them closely enough to the total social context of their lives".

Through the acquisition of the necessary skills and the necessary understanding of the nature and of the circumstances in which pupils will spend their working lives.

A case could be made that every student training as a teacher should acquire a good understanding of the nature and of the circumstances in which pupils will spend their working lives.

On academic standards among student teachers, the paper says that, apart from the already established aim of a normal requirement of two A-level passes, certain qualifying standards in English and mathematics, perhaps at O level, must be considered.

Education and training institutions have to adapt to the changing needs of schools and to equip new teachers with the ability to judge what innovations should take place.

ILEA clash looms over poly audit

A confrontation between the Inner London Education Authority and at least one of its polytechnics seems likely over its right to audit their books.

At a meeting last week between the directors and Mrs M. J. Rees, chairman of the ILEA further and higher education sub-committee, Mr Colin Adamson, director of the Polytechnic of Central London, made clear his opposition to the audit. His colleagues, however, agreed with the audit in principle but not with the proposed peripatetic auditing.

In putting the audit scheme before the education committee this week, Mrs Rees announced what must be the ILEA directors' view on a concession to protect polytechnic autonomy. She said there could be further discussion with directors on the method of the audit. The audit will be based at the individual polytechnics, seconded from the Greater London Council staff and working inside the polytechnics alongside their own accounting staff.

This compromise is likely to satisfy the directors of Thames City of London and North London Polytechnics and, it is understood, may lead Mr Vivian Poreiro Memozo, director of the Polytechnic of the South Bank, to drop his opposition. At a meeting last week he described the ILEA as "misguided and ignorant".

Dr Adamson has criticized the authority for its policy on overseas students and its attempt to control polytechnic spending through the method of the audit. He is understood to be threatened to bar the ILEA auditors from his polytechnic.

Two given top French honour

Mr Jacques Grosjean, head of the applied mechanics group at Bath University, has been made a Chevalier de l'Ordre National du Mérite—the highest civilian honour in France—for his pioneering work in developing the university's unique courses in engineering with a foreign language.

Mr Grosjean was born and educated in France until 1940 when, at the age of 16, he escaped from Brittany in a small fishing boat to join the Free French Forces in England. After the war he took a mechanical engineering degree at London University and has worked in England ever since first in industry and then at Bath.

Much of his time has been devoted to Bath's engineering with French degree, launched in 1966, and the engineering with German degree that followed it. Frequent visits to France have created valuable teaching and research links between the university and French engineering schools and industry.

This honour has also been bestowed on Professor Sir Nevill Frost, honorary professor of experimental physics at Cambridge University and senior research fellow at the Cavendish Laboratory, London. Through his long scientific career, and notably at the head of the Cavendish Laboratory, he has frequently contributed to improving the links between French and British scientists, said the French Embassy in London.

Liverpool chemists close to total enzyme synthesis

A significant scientific achievement within the reach of a team of Liverpool University chemists: total synthesis of an anti-bacterial enzyme called lysozyme, which is more than twice the size of any protein molecule previously synthesized.

Professor George Kenner, Royal Society Research Professor at Liverpool, announced at a Chemical Society lecture in London last week that after six years' work his research group has put together the sequences of 129 amino acids that make up a lysozyme molecule. They must now remove all the "protecting groups" attached in sensitive parts of the molecule as it was built up, and purify—and hopefully crystallize—their material.

These last stages are very tricky, involving new methods of chromatographic separation, but Professor Kenner expects to complete them successfully. He will then have made a protein whose molecular weight is more than twice that of the largest artificial protein obtained pure so far.

Crystallization of pure lysozyme

would be a major triumph of classical organic chemistry, for the Liverpool group has relied essentially on a wide range of well-tried techniques, starting with short chains of a few amino acids and systematically assembling them into longer and longer polypeptide units until finally a molecule with 129 amino acids. Reactions were carried out in solution with full use of protecting groups.

Professor Kenner had consulted some of the world's leading protein chemists before embarking on the project, and there was a widespread feeling that the total synthesis would not work for such a big molecule.

His method contrasts with the acid plus synthesis preferred by many research laboratories, where one end of the growing polypeptide chain is chemically bonded to resin, usually polystyrene, and amino acids are added to the other end one by one. This route has produced an inseparable mass of compounds when applied to larger proteins like lysozyme.

UEA warned of 30 per cent cuts if staff left untouched

If staff budgets at the University of East Anglia are left untouched, non-staff budgets will have to be reduced by 30 per cent in 1977/78, the university's resources committee has predicted.

In a discussion document an estimate of expenditure and savings, aimed at outlining the university's problems, the committee estimates that the 4 per cent cut in the university's income in 1977-78 will in practice mean a deficit of £400,000 or 5.7 per cent on this year's planned spending.

Wages and salaries account for 78 per cent of expenditure, it says. It cannot be guaranteed that there will be a 6 per cent wastage of staff, and even if there was, the posts concerned might be crucial to the running of the university.

"And yet we see little point in looking only to non-staff costs to

take the whole of the 6 per cent. This would mean reducing the level of non-staff expenditure by an average of 30 per cent.

The committee says that just to cover the university's accounts expected to balance this year, it must not be misled into thinking that everything is all right. The university would be seriously out of balance next year unless some action was taken in the next few months.

By taking appropriate action quickly the university will not only have a chance to meet its obligations and the university's priorities rather than being entirely dependent on making savings through fortuitous vacancies and resignations; and some steps to plan the near future must be taken immediately and unhesitatingly.

Universities better off

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The Committee of Vice-Chancellors and Principals has put to the Government a proposal to change the funding of about £5m to help students in difficulties over tuition fees.

At a meeting last week with Mrs Williams, Secretary of State for Education and Science, the vice-chancellors expressed their concern about the high level of fees for 1977-78 and said that, bearing in mind the percentage increase over this year's level, the hardship fund might be increased proportionately.

Among other topics discussed was the proposed new system of fees for the new technology courses at universities. Sir Roy Marshall, CVC secretary-general, said if they were to take another 4,000 students in their subject, as the Government has indicated, they could in three years' time the university population would be 285,000, more than half the 560,000 total higher education target for 1981. The White Paper, A Framework for Expansion, envisaged that by 1981 the total would be divided equally between universities and polytechnics.

Mrs Williams said that their grant for 1977-78 was not likely to be reduced by as much as 4 per cent.

LMH to leave NUS?

The Junior Common Room of Lady Margaret Hall, Oxford, voted this week to disaffiliate from the National Union of Students. The voting was 43 to 37, but the decision is now to go to a ballot.

Protest students change minds on ceremony

The students' union of London University's Institute of Education changed its mind about the opening ceremony of the institute's new building.

"At a meeting last week students voted to rescind their earlier decision to oppose the opening ceremony which was to have been formed by Queen Elizabeth, the Queen Mother, on March 1st. Students had agreed to boycott the ceremony in protest against education cuts. Now they have decided that the ceremony will be postponed, should the present government system be replaced by a more democratic system in the future.

NEXT WEEK

- Profile of Polytechnic of East Anglia
- Engineering and science education
- Australia's new universities
- Middleton
- Henry Chilver: the industrial crisis
- The SRC and high energy physics
- Talking point

Public sector 'no change' as Oakes begins

by Judith Judd and David Walker

The Government has issued a paper for the Oakes Committee's first meeting this week which seems to rule out any substantial changes in the way the public sector of higher education is run.

The paper says the binary system will remain, with important consequences for the groups' work. The universities were less adaptable when higher education numbers were relatively stable while the key characteristic of public sector institutions was that of meeting needs expressed by student demand and requirements for qualified manpower.

The result of this was that the system of management should not isolate higher education from further education "so that there is scope for staff and buildings to be transferred from one to the other in most changed circumstances".

Another was the need of institutions and staff to be adaptable to change. "The latter management in regard to tenure, premature retirement, redundancy, retraining, safeguarding of employment will need to target this".

The paper says that the local authority role in higher education will remain and there will need to be coordination with the universities. "The respective responsibilities of local government, including finance, will also remain as they are."

To begin with, the group should concentrate on the present arrangements for financing higher education and the relationship between the universities and the local authorities and the respective responsibilities of the authorities, regional and national bodies.

It should also focus attention on the problems of the next 10 to 15 years, bearing in mind that higher education numbers are unlikely to increase much after the early 1980s and may fall towards 1990. "Temporary expansions will be needed to meet the demand for science and technology facilities for science and technology in what extent underused resources should be kept open, and the need to make arrangements to be made". Planning, says the paper, will have to be of a rationalisation rather than development.

A possible aim the committee should try to make the most cost-effective provision within the available resources, to meet the demand from students of any age.

On underused facilities for science and technology it warns that "the management system must be responsible for a considered national decision as to what extent underused resources should be kept open, and the need to make arrangements to be made". Planning, says the paper, will have to be of a rationalisation rather than development.

MRC expects 2% cut

by Clive Crookson
science correspondent

The Medical Research Council is expected to announce a 2 per cent cut in real income for 1977/78. This will mean a full year of grants minus in earlier years, this will severely restrict the amount for now awarded in the current academic year, and will force the budgets of the council's own establishments to be cut once more, it says.

The budget for 1977/78 will be £55m, compared to £52m for 1976/77. This is likely to mean a two per cent fall in constant prices. The MRC is to give priority to grants for individual research projects having a maximum of three years' support in the form of five-year programme grants. Scientists are being advised to

Authorities' bid to tighten grip threatens poly autonomy

by Sue Reid

Local authorities are making a new and determined attempt to increase their control over the teaching and non-teaching staff establishments in polytechnics and drastically weaken the hand of governing bodies.

The counter-revolution, which is threatening the autonomy of the colleges, faces vigorous opposition from polytechnic staff. But in the past month at least five authorities have taken action designed to curtail the power and responsibilities of governing bodies of the colleges they fund.

Haringey, Barnet and Enfield, which jointly control Middlesex Polytechnic, have submitted a revised draft of the college's instruments and articles of government to the Department of Education and Science which, if approved, will curb the polytechnic's control of staff numbers and grades.

The move, expected to open the floodgates for similar proposals, has won the backing of Cleveland authority, which funds Teesside Polytechnic. It has offered to join representatives of the three London authorities in sending a delegation to the DES to press for more local government power in polytechnic administration.

A document outlining methods of bringing the staff establishment at Newcastle Polytechnic more firmly under local authority control has been drawn up by Newcastle City Council. It has already been received by the authority's education committee and will be discussed by the polytechnic council next week.

At Kingston discussions are also under way between the authority and the polytechnic about the control of the non-teaching staff establishment.

Last December the annual general meeting of the Association of Metropolitan Authorities voted in favour of strengthening authorities' control over polytechnic staff. The association, whose constituent authorities numbered 18 of the 30 polytechnics in England and Wales, passed a motion, proposed by Haringey and seconded by the Inner London Education Authority, which

stated: "Those local authorities which maintain polytechnics must have direct control over the staff of such establishments in order properly to discharge their full financial and other responsibilities."

The revised draft of Middlesex Polytechnic's articles of government allows for the joint education committee, made up of members of the Enfield, Barnet and Haringey authorities, to assume full control of the numbers and grades of teaching and non-teaching staff, a responsibility currently in the hands of the governing body.

The draft, made necessary because of recent college mergers with the polytechnic and the time since the original instruments and articles were drawn up, also reduces academic and student representation on the governing body.

It is expected to provide a test case. The instruments of most of Britain's polytechnics are aligned with a DES model allowing maximum autonomy, and the department may not be a willing participant in plans to weaken the role of governing bodies. Mr Gordon Oakes, Minister of State overseeing higher education, has already refused to meet the delegation from Haringey, Enfield, Barnet and Cleveland but talks are going on at officer level.

A DES spokesman said this week: "We are now in the process of consultation." But he added: "In general the department believes that the powers of governing bodies should not be reduced."

Governors of Huddersfield Polytechnic will appeal to Mrs Williams, Secretary of State for Education, against Kirkstoes Council's plan to reconstruct the polytechnic's governing body. The governors wanted a governing body of 35 in seven for three years with 11 local authority representatives, 18 academics and six from industry.

This week the council approved a scheme for a governing body of 37 in seven for four years in consist of 11 local authority representatives, 14 academics and 12 from industry.

Professor loses 'right to supervise my subject' claim

by Frances Gibb

Edinburgh University's court has rejected a professor's claim that if teaching in his subject is not done under his supervision the university is in breach of contract.

Dr Duncan McMillan, professor of Romance linguistics, claims that under the terms of his contract of employment he has statutory responsibility for all teaching in Romance linguistics or any course definable as "constructive description of modern neo-Latin languages".

He is objecting to proposals by the department of French to introduce, in October 1978, a new course entitled the history of French and related languages. Professor McMillan says that the university has breached his contract of employment by not having the right of veto.

The issue has arisen out of an inquiry by a standing committee of court comprising academic staff on the rights and responsibilities of professors and heads of department in relation to teaching.

London v-c payment complaint rejected

The Privy Council has dismissed a petition from Professor John Griffith, professor of law at London University, complaining about £6,000 in backpayment made to his vice-chancellor.

Professor Griffith, who lodged his complaint in November 1975, claimed the payment was in breach of the Government's pay policy of July 1975 and was an unnecessary and unwarrantable expenditure of public money. He also claimed it was illegal under the statutes of the University of London Act 1926.

The three Lords of Appeal (Sir Lord Fraser and Lord Wilford) dismissed the petition saying that no case had been shown which called for any directions by the Privy Council to whom the petition was addressed.

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NELP building to restart as cleaners end picket

Cleaning staff at North East London Polytechnic have called off their five-month long picket of the college's Highbury campus and tonight is likely to return to the building early next month.

The cleaners' union took strike action over the allegedly dangerous level of asbestos dust in the annex, brought all teaching to a halt. Students in the School of Independent Study and in the college's fashion and design diploma course and MSc programme in educational psychology had to be temporarily rehoused. Thousands of quills worth of equipment which has built up since September are expected to have to be applied or reworked.

After talks with Mr George Brown, the polytechnic director, and local authority representatives last week the cleaners agreed to call off their picket on that building work started last summer could be completed. A firm of industrial cleaners, nominated by the Transport and General Workers' Union, to which they belong, is to arrive in mid-June to start before it is used for teaching again.

More than 200 students have been hit by the cleaners' action. The School of Independent Study, which

caters for 140 Diploma in Higher Education students and those taking degrees by independent study, was housed in Portokubik last October.

Mr John Stephenson, head of the full-time DipHE programme, told THE TIMES: "We have been at a considerable disadvantage. We have not been able to gain access to teaching materials in the annex and so the design diploma course and MSc programme in educational psychology had to be temporarily rehoused. Thousands of quills worth of equipment which has built up since September are expected to have to be applied or reworked."

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Squeals over Oakes committee

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Appointed by the Secretary of State and Lord Alexander, chairman of the Education Committee, the Education Committee, Mr J. V. Barstow, principal of the College of North Wales, and Mr J. H. Michael, chairman of the Government's Academic Awards, Dr Kay P. Knight, secretary of the Polytechnic of North London, Mr T. G. Minter, secretary of the Association of Vice-Chancellors and Principals of the Universities of the United Kingdom, Dr Bill Taylor, director of the London University Institute of Education, Mr G. Venn, chairman of the standing conference of regional advisory councils for further education.

Nominated by the Council of Local Education Authorities are: Sir Ashley Bramall, leader of the Inner London Education Authority; Mr W. H. Blacklock, chief education officer of Birmingham; Mr W. V. E. Coates, chairman of the Nottinghamshire Education Committee; Mrs F. L. Carter from Essex County Council; Mr J. R. Harroll, chairman of Cambridgeshire County

Council; Cllr Peter Horton, chairman of Shropshire Education Committee; Mr D. E. A. Jones, chief education officer of Shropshire; Mr J. A. Spragg, county education officer of Essex County Council; Cllr M. Thornton, leader of Wirral Metropolitan District Council; Mr J. H. Blacklock, chief education officer of Birmingham; Mr W. V. E. Coates, chairman of the Nottinghamshire Education Committee; Mrs F. L. Carter from Essex County Council; Mr J. R. Harroll, chairman of Cambridgeshire County

The Association of Principals of Colleges is represented by Mr L. E. Parry, principal of Brighton Technical College. Nominated by the Committee of Directors of Polytechnics are: Arthur De Zutter, subsidiary director of the City of London Polytechnic, and Dr Raymond Rickett, director of Middlesex Polytechnic.

The representatives of the National Association of Teachers in Further and Higher Education are: Mr Tom Devis, training officer of Birmingham; Mr W. V. E. Coates, chairman of the Nottinghamshire Education Committee; Mrs F. L. Carter from Essex County Council; Mr J. R. Harroll, chairman of Cambridgeshire County

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John Pick 1975

Do away with CVCP and UGC-Beloff

by Sue Reid

Crucial savings would be made if the higher education section of the Department of Education and Science and the "twin bureaucracies" at the University Grants Committee and the Committee of Vice-Chancellors and Principals were scrapped, Professor Max Beloff, Buckingham, has declared.

He has put forward a plan for savings in universities' non-productive expenditure, made up of a case for the State taking a secondary role as a provider of education, and strongly urging the number of incoming students allowed to begin higher education courses.

Giving a paper at the City University he said: "To get rid of the DE's higher education section and the UGC and CVCP would be an important saving of non-productive expenditure. If universities were to be entrusted with spending the product of their fees and a subsidy which, apart from research, was calculated on some simple formula, would probably much increase their efficiency."

"I believe that there is a good case for saying that the State should never be the principal provider of education at any level and that its role should be as far as possible restricted to financial subsidies of voluntary effort with the minimum of direct intervention."

However it was necessary to work with what was inherited. There was no possibility of a country where the State financed higher education to the overwhelming extent it did in Britain that an independent sector could develop in the way it existed, greatly to the nation's benefit in primary and secondary education.

On overseas students in British Professor Beloff said that higher education remained one of the most important potential exports. The implications of differential student union rates and academic decay and the basic principle of market economics.

At Buckingham identical fees were charged to all students doing the same course. "But he added: "Probably, too many overseas students are being allowed to beguile HE courses. I say 'beguile' advisedly, because quite a proportion of those who apply to us have made a start elsewhere."

Several things attracted waves of them. The most obvious was language. Even from Commonwealth countries where secondary education was in English and where a reasonable colloquial level could be expected it could not be assumed that the transition to university work demanding the understanding and manipulation of abstract concepts was without immediate reach.

The second academic year of the university college was started at the end of January with 105 new students and 55 others entering the second year of their studies.

Of the new students 63 are reading law; 19 law, economics, and politics; 14 economics; and nine history, politics and English.

Scientists urged to act on human rights

by Clive Cookson science correspondent

The application of International Human Rights Law to scientific research are examined for the first time in a Council for Science and Society report published this week. It urges that scientists have a duty to take action on behalf of colleagues deprived of their scholarly freedom.

Few scientists realize that there is now an internationally accepted code of human rights providing a universal standard against which the performance of governments and public authorities can be measured. It has grown up since the Second World War by the accumulation of international instruments signed and ratified by many governments of different countries, and starting with the United Nations' Universal Declaration of Human Rights in 1948.

A distinguished human rights lawyer, Professor Michael Atiyah, Hans Korober, Mario Pollack and John Ziman, Mr Paul Sieghart, Mr Ian Riley and the late Sir Kenneth Younger, prepared the report which describes the relevant provisions of International Human Rights Law in detail and shows how they affect science.

Scientists, individually and through their professional organizations, must protest publicly against any contents of International Human Rights Law anywhere in the world, and in clear cases must employ sanctions against transgressors, argues the report, which has been endorsed by the British Institute of Human Rights.

This is because supra-national institutions to enforce compliance with the international code have not

yet been created—with the exception of the European Council of Europe, which has a commission and court to enforce the European Convention on Human Rights.

The report regards public protest as a much more effective weapon than private persuasion whose effects are "unpredictable" and whose effects are "scarcely verifiable". Public protest, on the other hand, had more than once in recent years been found in large cities remarkable success, provided it was measured, restrained, well-informed, and never persistent and first.

"In our view it is a mistake for any organization of international standing—such as many of the recognized scientific institutions—to refrain from using the powerful and tested weapon of public protest only because the channels of private persuasion have not yet been exhausted."

By writing international scientific conferences in countries where international instruments are not signed or ratified by the governments of the countries in which they are held, and by using the powerful and tested weapon of public protest only because the channels of private persuasion have not yet been exhausted.

The scientific community has always been sensitive to oppression, and has never entirely repudiated its duty to help them. But such action has usually been sporadic, ad hoc, and uncoordinated, without any central theme or organized core. In the past, this may have been due to difficulties in perceiving and articulating the precise issues at stake in individual cases.

"By examining these issues against the universal standards of International Human Rights Law, these concerns can be seen to have a common thread. It is suggested that a central clearing house to collect and evaluate information about the deprivation of scholarly freedom is recommended. But to command the necessary respect for its impartiality it is suggested it should be operated by one of more international organizations, including at least one non-governmental body accredited to the creation and supervision of International Human Rights Law.

The International Council of Scientific Unions (ICSU) and International Commission on Intellectual Property are suggested as the most suitable bodies to run the scheme. ICSU would supply the information, and ICI would decide whether international law was violated. The ICI executive committee would indicate its willingness to undertake this function.



Mr Paul Sieghart—on study group

The report "deliberately refrains from riding specific contemporary examples of the oppression of scholars by drawing attention to persons in one country, who could be taken to task for failing to give equal prominence to persecution elsewhere". Thus Nazi Germany, the colonial powers, the Soviet Union, and the Soviet Union are mentioned. The report is published by Bury & Paul (Publishers) Ltd, £2.25.

4 storey complex opens in Wolverhampton

Wolverhampton Polytechnic has formally opened new extensions to its four-storey library, students union, and a new centre for the arts, at a cost of £1.5m, most of which will be borne by the advanced further education pool.

The library building has a floor area of 4,200 square metres and has 750 reader study places. It has been designed to provide for the long-term needs of the polytechnic and neighbouring colleges. The present stock of 70,000 volumes is planned to grow to 200,000 as the student numbers increase to 4,500 by 1981.

£150,000 appeal

An appeal for £150,000 to fund a chair in education for international understanding, cooperation and peace in London University's Institute of Education was launched this week.

The Marc Goldstein Memorial Trust was founded as a tribute to the work of a London teacher who died in 1970. Contributions should be sent to the Donations Secretary, Mrs Jenn Coffins, 125 Turvey Road, London SE24 7JB.

Problems of graduate employment Primary jobs most scarce

Students qualifying as teachers find it hardest to get jobs in primary schools, according to a survey by the University of Liverpool's Careers and Appointment Service.

Based on replies from some 950 teacher training graduates from all eight Scottish universities and Paisley College of Technology, the survey shows that in the September after graduation, 38 per cent of students seeking primary school jobs were still unemployed.

The next most difficult area was at secondary level in history, geography, modern studies or economics. Jobs were easier in mathematics, physics, business studies or music, where only 2 per cent were unemployed, and in English, modern languages, chemistry and biology, where 10 per cent were unemployed.

Mr D. B. Haggart, the senior careers advisory officer, said although the two larger percentages were "unacceptably high" they were lower than expected. The other two percentages represented levels which could be regarded as acceptable, bearing in mind that they referred to the position only one month after the start of the first school term after completion of training.

The highest ratio of applications to places on average were for secondary level teaching in history, geography, modern studies and economics (2.5:1) and primary posts (2.6:1).

The highest number of applications were for secondary teaching (history, geography, modern studies and economics) in the border region, and for primary teaching in the central region. The ratio of applications for primary jobs outside Scotland was 6.3:1.

Poly students no better off

Almost half the students completing courses at Sheffield Polytechnic in 1976 found permanent work within six months and a further 16 per cent secured temporary or sponsored employment, a survey by the college has revealed.

Only 4 per cent of the 1,840 students graduating with degrees, certificates or diplomas in 1976 were known to be unemployed by the end of the year. Nineteen per cent of

London University to end some BScs by post

London University is to abolish a minority of its BSc science degrees to be replaced by private study and correspondence because of a severe fall in student registrations, the university has announced.

The decision, taken by Senate in September and the first to be implemented, will affect the BSc in physics, chemistry and biology. The BSc in physics will be replaced by a BSc in physics by post.

Last year only 300 in the BSc in physics were reading for the degree by private study or correspondence. By comparison the BSc in chemistry had more than 1,000.

No students registered in the first year examinations in the BSc in physics or biology in 1976. The BSc in physics had 25 per cent of its students registered for the BSc in physics by post.

Of all the students registered for the BSc in physics by post, only mathematics may survive. Its future is still under consideration. Geography will be offered as an arts subject only from next September.

In 1970, the number of private students registered on the BA in science degrees programme was 7,451. By 1976 this number had risen to 5,562, in spite of the fact that the highest proportion of those entering employment went into agriculture (71 per cent) social studies (53 per cent) and applied science (51 per cent), compared with arts (43 per cent) and pure science and arts, however, had the highest proportion of students going on to further study.

King Alfred's the first

King Alfred's College, Winchester, has become the first higher education college of higher education to receive validation for its honours degrees in English. The new degree programme was approved by the Council for National Awards in September.

Giving in would cost £1m Dahrendorf says

By Frances Gibb

Giving in to student demands that tuition fees should not be increased would cost the London School of Economics £1.5m and mean massive redundancies, Professor Ralf Dahrendorf, its director, said this week.

Students at the LSE occupied the school's administrative buildings this week, despite the director's threat to seek a High Court injunction. He warned on Monday that if they did not leave the building within 48 hours, he would be forced to take legal action.

He added, however, that an emergency meeting of the court of governors' standing committee had agreed that a last attempt to negotiate the dispute should be made after a students' union meeting held on Monday. The meeting was held by 583 to 12 in favour of the occupation until their demand that the fees not be increased was met.

Professor Dahrendorf said the school shared many of the students' aims and was prepared to discuss them rationally but not under duress.

He emphasized that an injunction would only be sought as a last resort. "For someone like myself, I am an extremely serious believer in involving the student body in university disputes should be settled internally," he said.

Professor Dahrendorf criticized both the new level of the fees and the way the Government announced them as "indefensible". "If the Government wants to give universities freedom to make up their minds it must not put them under duress by saying if they do not implement the increases they will lose a proportion of their income."

Under the new fee levels the LSE will depend for more than 30 per cent of its income on tuition fees, he said. There was no justification for introducing through the back door a major change in university financing or policies directed against overseas or postgraduate students.

If the Government wanted to save £2m, which was the figure it is

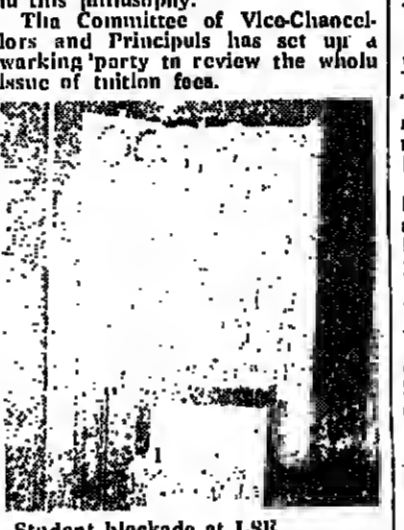
said, he was saying by the new fee levels, the straightforward way in which it was to run the universities' grant.

About one quarter of LSE students are estimated to be self-supporting. Home postgraduates and overseas students, of whom there are very large numbers at the school, are worst affected: home postgraduates facing increases from £180 a year to £250, and overseas students from £416 to £670.

Professor Dahrendorf said one solution might be for a substantial increase in fees, possibly of the order of £50,000, and special funds for overseas students.

The National Union of Students has backed the action taken by the LSE students and called on other student unions to take up the cause. The government's decision came after a students' union meeting held on Monday. The meeting was held by 583 to 12 in favour of the occupation until their demand that the fees not be increased was met.

The committee of Vice-Chancellors and Principals has set a working party to review the whole issue of tuition fees.



Student blockade at LSE.

Down on the farm British training equals European

The education and training of British farmers and farm workers compares well with continental systems. This was the general feeling of a British Council symposium on agriculture in education and Europe, held in London last week.

The British Council had sent teams of three or four agriculturalists to study a current view of education and practice in 11 European countries, and their reports formed the basis of the conference. Delegates divided into three working groups under the broad heading of higher education, integration of education and training, and teacher, training and curriculum development.

After the groups had reported their findings, the conference chair, Sir Eury Jones, principal of the Royal Agricultural College, summed up their mood. "You are obviously pleased with the British system, but you have said it is not perfect and you have identified deficiencies in it."

St. Eury's said the farm model of university being produced by British general superior to many in commerce and industry. "They do hold a candle to our farm skills and nous. We have managed to turn out men who are really top class and will fit perfectly into the demands of the 1980's."

He contrasted the widespread feeling that in Europe farming was something you go into if you cannot find anything else with the abundance of able candidates for jobs in British agriculture.

A much praised "Evjovote" formerly of Ems, Ashton Research, Stilton, clearly far more interested in the continent in vocational training of school leavers than in Britain, where we have always set our faces against this approach. On the other hand, many Continental courses at

post-school level seem to provide a generous component of general education, whereas we are doing little more than pay lip service to the concept.

"Would it perhaps be a good idea if vocational education started earlier in some schools, and general education continued much longer and more vigorously at further education level, especially in foreign languages and perhaps in mathematics?" he asked.

Many delegates did feel that agricultural education could be introduced into the last two school years, but no earlier. They also felt something should be done to break down Britain's rigid barrier between school and further education, which was making youngsters in the 16 to 18 age range.

There was little enthusiasm for the vocational apprenticeship system, based in the time-honoured master-farmer-apprentice relation, which dominates vocational training in Germany, Holland and Austria. The higher education group showed no support for the master farmer concept, though the education and training group thought there might be a place for something similar here.

The higher education group, led by Professor William Williams of Reading University, and Dr G. J. Durrick, principal of Seale-Hove College, Devon, was impressed by the common vocational groups' emphasis on mathematics and physics in agricultural courses, both in entry requirements and in course content. There was some support for a suggestion that a certain amount of compulsory work be sacrificed to make room for mathematics and physics.

The group decided that "decisions in agriculture should not match the needs of production too closely". A statement that removed some of the working farmers' protest.

The proceedings of the symposium will be published in April in the form of a report to the British Council report Agricultural Education in Europe.

Genetics and snap, crackle, pop

by Clive Cookson, science correspondent

The most significant of all the major benefits promised by genetic engineering is likely to be the increase in crop plants, especially cereals, of the capacity to fix atmospheric nitrogen.

Professor S. W. Glover, professor of genetics at Newcastle University, says this first in the list of genetic engineering's likely contributions would be achieved "at a stroke".

It has been estimated that about a third of the energy cost of raising a field of wheat in Britain is attributable to the cost of manufacturing nitrogen fertilizers. This here and even more in the developing countries the east of N-fertilizers is a rate-limiting factor in the production of food.

Genetic engineering is likely to overcome the world food shortage, he said. Therefore a huge financial burden would be removed from farming, and the pollution raised by nitrates washed into rivers and reservoirs would be reduced "at a stroke".

"Already, significant progress has been made in this area and I am optimistic that complete success will be achieved in the foreseeable future," said Professor Glover, who is chairman of the International Microbial Genetics Commission. Glover has been working in bacteria to transfer genes for nitrifying enzymes, and experiments are in progress in several laboratories to introduce them into plant cells.

Among medical applications of genetic engineering actively being pursued, Professor Glover mentioned: the preparation and study of cancer-inducing genes—"this the way may eventually be open for the preparation of antisera to specific cancer gene products"; the cloning of human genes for insulin production in a bacterial host offers the possibility of insulin manufacture on a large scale for the treatment of diabetes (a shortage of the currently used animal insulin is feared); the use of genes for human pituitary growth hormone—already available from human cadavers and in desperately short supply—could be obtained in a similar way; production of specific human antibodies and antigens would be a major step in treating a cancer

preventing a wide range of diseases; "more distantly and certainly very speculatively is the remote possibility of treating hereditary diseases by individual gene therapy."

Professor Glover forecasts major industrial applications of genetic engineering, particularly to increase enormously the yield of microbial enzymes used in many processes. "More speculative applications might, for example, be in the construction of tailor-made microorganisms, say in deal with pollution problems such as major oil spills."

He went on to the public debate about the hazards of genetic manipulation, which took off in 1974 when a group of American scientists, led by Paul Berg, called for a worldwide moratorium on experiments until appropriate precautions could be taken.

"I think it is regrettable that behaviour in a socially responsible manner the scientific community has suffered so badly at the hands of the press and politicians alike. Our colleagues in other quite disparate fields of research are looking upon this story and draw a moral—and may remain silent where otherwise they might have been outspoken," he concluded.

ILEA delays decision on teacher training moves

By Judith Judd

The Inner London Education Authority has delayed its decision on the reorganization of teacher training in its area.

The Inner London Education Authority has delayed its decision on the reorganization of teacher training in its area. A memorandum from Mr Peter Newsam, the authority's education officer, sent to Shoreditch College, Egham, Surrey, on February 3, proposed that the college should close and about 100 of its design and technology places be transferred to Avery Hill College.

After some fierce lobbying by the college, the ruling Labour group failed to agree on a policy for teacher training. A second memorandum from Mr Newsam to Shoreditch, which he had decided not to put the proposals to his week's further and higher education sub-committee as originally planned. The report in the committee would be purely factual and a decision would probably not be taken until March 9.

The Government is suggesting that two London colleges, Phillippu Fawcett and Putneydown and the Sidney Webb College, now part of the Central London Polytechnic, should be merged. The authority to divide the remaining 1,500 initial teacher training places.

If Shoreditch remained open Avery Hill would have to close. Mr Newsam told the Shoreditch education sub-committee that the authority would be able to meet the needs of London.

Architects reject German diploma

British architects have voted Cancellation Market proposals on the minimal recognition of qualifications in Germany has been held by the profession to be unacceptable here.

The Royal Institute of British Architects and the Architects' Registration Council have told officials of the Department of the Environment they would not accept a three-year German qualification as equivalent to the four and five-year courses in the United Kingdom.

The British architects made clear their minimum was a four-year training course or its part-time equivalent at university level and with a final examination. The Germans, unlike the other member countries of the European Community, treat a large number of their architects as shorter courses in Fachhochschulen—vocational colleges.

Discussions in a Community directive embodying mutual recognition of qualifications reached a head late last year when it became clear that the other member countries would accept the German courses together with some other domestic ones. The sticking point for the British was that they still contained no university level final examination or final project work or thesis.

According to RIBA, the professional bodies in France, Italy and other member countries shared its concern, but were overruled by their governments.

Thames defies 'cut overseas number' order

by Sue Reid

Thames Polytechnic governors have voted against accepting the Inner London Education Authority's controversial directive to cut its overseas student numbers from the present level to 20 per cent.

It becomes the second of the five polytechnics funded by the authority to defy the plan. The college, which fell in line with the first phase of the ILEA quota policy, had held its overseas numbers at the same level this academic year as last, and now plans to follow the recent Department of Education and Science instruction that keep the numbers next year to the 1975-76 level.

The Polytechnic of Central London has also finally rejected the ILEA plan and the governing bodies of the North London and City Polytechnics will decide during the next month whether to follow this lead. Their academic boards have already come out in direct opposition to the directive.

A deadline for responses from the five colleges was set by the authority for February 28, but South Bank Polytechnic has called for further consultations.

Mr Vivian Pereira-Mendoza, director of South Bank Polytechnic, is also believed to have appealed for further detailed consultations with the ILEA in its capacity as chairman of the Committee of Directors of London Polytechnics. But this week the ILEA maintained that it had not received any rebuttal by letter.

The polytechnics which decide to defy the directive will be told that they will suffer a reduction in their block grant and still establishment. Last week Mrs Janet Ross, chairman of the ILEA's further and higher education sub-committee, praised the 24 maintained further education colleges in London for falling in line with the plan, unlike the semi-learned Polytechnics.

She said: "Our colleges were asked not to increase the number of overseas students recruited in 1976 over their 1975 intake. In fact many of the maintained colleges have managed to do this. The number of overseas students actually dropped from 5,964 in November 1975 to 5,103 in November 1976, while the total number of students rose from 19,038 to 19,364."

Drink addiction causes concern

As many as 50 students a year may be leaving university with a cultural level of alcoholism, according to Dr Ian Fraser, head of Leeds University Health Service.

What might appear to be a normal level of consumption may be extremely harmful in the long run, he says. For 1980, the health service is at a maximum period of 18 months to two years. It is only then that the accumulated effects of regular heavy drinking show themselves.

His remarks, quoted in Leeds Student, follow a report by Dr A. MacLennan, head of the Forward Trust, a health centre, who said that drink had replaced drugs as the major problem for university health officers.

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Government seeks industry link on scholarships

by Alan Wood

The Government is examining a possible scheme for industrial scholarships. Lord Winterbottom revealed this in replying for the first time in a Lords debate last week on the attitude of society, and particularly students, towards industry.

It was not possible to give details but the basic elements were that it would be run in collaboration with industry and would be in the form of a fund to support students taking particular courses in engineering and technical subjects, he said.

The other type of cash incentive in mind had already been announced—students may in future receive payments by employers of up to £500 a year without any reduction in their awards. Until now the maximum had been £185.

Lord Rochester, who initiated the debate, said the idea seemed to have gained ground among students that careers in industry were not simply unattractive but, in some way or other, selfish. Yet surely services could be rendered to the community as much in industry as in schools, hospitals and the social services. If graduates were not to play a significant part in supplying industrial leadership, where else was it to come from?

Industry could do much more to ensure that students generally had a much better idea of what actually went on in it, the attractions it

had to offer and the great service that could be rendered to the community. Large industrial organizations had little to fear in presenting themselves in this way for comparison with other large institutions.

Lord Carr of Tully, for the Opposition, said the fact that people should judge the value of an industrial or commercial enterprise was the double use of, first, to make a profit and, second, to use that profit to the genuine benefit of society.

Third industry could carry that message with conviction. He did not believe progress would be made in raising the esteem in which industrial and commercial activities were held by the country at large and young people in particular.

Lord Scobham said the Careers Advisory Service for school-leavers was distressed; he thought it incompetent and biased. It should be taken right out of the education system.

Lord Bowden said that a comparison of salaries offered to graduates in the town hall and those going into factories showed a 1,000 difference two years ago in favour of the former. This problem, which had come about in the past few years, had not been foreseen and they must not be surprised at the consequences.

Lord Tadder said in Germany scientists and technologists in industry could hold university

appointments, a system which should apply in Britain, where the system existed only in medicine.

Scientists and technologists should be seconded to universities at a particular staff of around the size of 30 and on a five-year contract. Their duty, in addition to teaching, would be to pursue their own profession.

Lord Winterbottom, for the Government, said admissions in university degree courses in science and technology subjects fell in the early 1970s but had recovered since 1973. Within the total, engineering had been doing particularly well. CMAA courses were also attracting more students and admissions to engineering increased by 10 per cent in 1976.

Nevertheless, there were still many empty places in science and technological subjects in universities and polytechnics. There were 27,000 this year of which 22,000 were at tertiary studies and 5,000 in polytechnics.

But there were signs that admissions would rise. The latest figures from the Universities Central Council on Admissions showed that the applications for 1977 entry to universities were 3 per cent higher than in 1976 for the polytechnics, and by less than 18 per cent higher for universities. The most notable increase was in production engineering which was up by 30 per cent.

Keele boosts science intake by 50 per cent

by Frances Gibb

Keele University has formed a new department of science by over 50 per cent in the last three years, Professor Stewart, the vice-chancellor, said in his annual report for 1976.

This follows the introduction of a three-year degree course in science. Normally Keele courses have been two years, but since 1972 students have been able to add a third year.

Like the four-year course year uses require students to do both science and non-science in the first part of the year, but it differs in requiring a second level as well as a first.

Much of the university's programme of expansion at Keele is now possible to add new laboratories of subjects to the and language apilous which largely comprised the course.

Commenting on the Government proposals to increase tertiary September, Professor Stewart said the university is particularly keen to see the effects of the new flow of people from Britain and to the rest of the world.

The university likely to be the first to have a large number of students from the rest of the world and also for the rest of the country.

In the last year there has been a 10 per cent increase in the number of students from the rest of the world and also for the rest of the country.

Don's diary

Research USA

Since the word "research" has these days been stretched nearly to breaking point, being applied with unashamed élan to an afternoon in the British Museum or a jet flight to Acapulco, the academic with a desire to pursue knowledge anywhere with a temperate climate and a reasonably soft currency has been forced back on to the conference circuit.

In a good year that may mean to more than a week in a distant, bustling city, in an eighteenth-century theatre. But, for students of America, 1976 was a very good year. The bicentennial of American Independence, indeed, was like a combination of the Marshall Plan and a bank loan.

It was a year of deeply entrenched academic instinct: the desire to display arcane knowledge, preferably before a large audience, and the wish to do so in a way that would be profitable to the rest of the world.

Commenting on the Government proposals to increase tertiary September, Professor Stewart said the university is particularly keen to see the effects of the new flow of people from Britain and to the rest of the world.

The university likely to be the first to have a large number of students from the rest of the world and also for the rest of the country.

Campus trends seen through media eyes

The New Left has been analysed in the past from the death of the university in the spirit of the last great era of industrial capitalism. Every where, academics and non-academics pointed to the disturbances as evidence that "the old is dying and the new cannot be born," and then told us what it was. But as we know, commentators, however significant by their writings on the importance of the events they are analysing.

The leaders of the New Left in whatever reasons claimed all the people who demonstrated and sat-in, wherever their motive, and commitment, as members of the "Movement". Ironically, many of the political Right shared their interest in asserting the strength of the New Left on campus; Ronald Reagan almost certainly won reelection as Governor of California by exploiting the popular resentment against the student disturbances on the Berkeley campus, and Richard Nixon was so grateful for student demonstrations against him that (as we learnt later) when they did not occur spontaneously, he arranged them.

I do not for a moment diminish the very considerable student disturbances of the 1960s as contrived or trivial events. They had important consequences both on the national scene and for the colleges and universities where they took place. Nevertheless, I believe that the New Left itself, significant parts of the political Right, many commentators of various political persuasions, and the mass media, all had a strong influence on the way in which the disturbances were perceived, and in particular on the extent of political radicalism among the large numbers of American students and teachers who opposed, and sometimes demonstrated against, our involvement in the war in Vietnam.

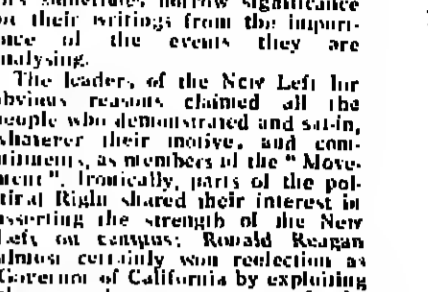
Against the picture of a radical student revolt of the 1960s, sketched by many hands and projected on the public consciousness through the mass media, the relative quiet of the mid-1970s may well appear as a swing to conservatism.

This is not the place to attempt a serious re-assessment of the events of the 1960s, or to discuss the just decisions that were taken. But the survey data I have been looking at make the meaning of those events more problematic than the popular view would have it. In the late 1960s there was widespread and growing opposition on campus (as in the larger society) to American involvement in the war in Vietnam, and especially sharp opposition on campus in military conscription. The 1960s were a time when settlements were organized and mobilized by the New Left behind a broad spectrum of radical positions.

But I do not believe those slogans or positions ever gained widespread support among students. Our evidence does not suggest that any considerable proportion of American students were "radicalized" by their experience in the movement. The 1960s were a time when the character of the working of institutions, the daily work of colleges and universities—the unglamorous business of teaching and learning—was being questioned, not by "radicals" but by a much larger group of students, and certainly not by those who were in the vanguard of the movement. Our surveys give us better evidence.

In my first report on the new surveys, published a few weeks ago by the Carnegie Council on Policy Studies in Higher Education, I observed that "Teachers and students had, in some areas of behaviour and attitude, not changed their views very much between 1969 and 1975. In other areas they have become rather more liberal or conservative over those last few years, and in all others they have become more conservative. The picture of higher education that we are able to draw is both more varied and more surprising than the conventional image of the 1960s and 1970s."

The earlier survey was done during a time of great turbulence and disruption on many American campuses. The media and particularly television followed these events very closely; one saw on the evening news programmes a good deal of rioting and violence, and got a sense of whole institutions in a state of anarchy. The surveys of 1969 and 1975 did not get a sense of the actual numbers of people involved, how many were students, who proportion of the student body they comprised, or the extent of the disruption. The surveys of 1969 and 1975 did not get a sense of the actual numbers of people involved, how many were students, who proportion of the student body they comprised, or the extent of the disruption. The surveys of 1969 and 1975 did not get a sense of the actual numbers of people involved, how many were students, who proportion of the student body they comprised, or the extent of the disruption.



Martin Trow

How does anyone know or learn about what is happening in American colleges and universities? Apart from the handful of specialists (who have their own research problems) most people must depend on the serious magazines and newspapers, and on the mass media, especially news coverage on television. But the picture the mass media present of our colleges and universities is, on the whole, simplified and distorted. It is not a picture that is available, given the nature of our system of higher education and the media themselves. This is so first because of the enormous heterogeneity of the American system, with its 100 colleges and universities, 10 million students, half a million to 1.5 million. And it is difficult to get a true picture of very different situations from one another. For example, public junior (community) colleges as compared with private research universities—but even within categories: for example, most California community colleges are in the valleys, and are very different from the community colleges that are part of the City University of New York.

As a result almost anything one might say about modern higher education is true somewhere; almost nothing one can say about it is true everywhere. The system is not only heterogeneous but also fast-changing, in response to myriad and widely differing pressures, as well as political or administrative decisions.

Quite apart from the effects of the size and diversity of the system, it is hard to say about modern higher education, while the character of the working of institutions, the daily work of colleges and universities—the unglamorous business of teaching and learning—was being questioned, not by "radicals" but by a much larger group of students, and certainly not by those who were in the vanguard of the movement. Our surveys give us better evidence.

NUS proposes arts research council to help fight cuts

by Judith Judd

A council should be established to fight attempts to cut back arts research, the National Union of Students says in a paper on the future of postgraduate education.

The paper, the NUS's latest contribution to the education debate, also says that research councils should be concerned with funding research projects and not with postgraduate education. "Adequate funds to support postgraduate studies should be transferred to the University Grants Committee and its equivalent bodies for allocation to institutions on the basis of academic merit."

This would prevent the duplication of effort between the UGC and the research councils and the segmentation of knowledge which the rigid structure of the research councils promotes.

An Arts Research Council might help combat the low view of arts research, the paper says: "If there are any further cuts in arts postgraduates the teaching capability of many departments will decline. There is already evidence of the development of unfavourable staff/student ratios as a direct result of research cutbacks."

Industry should be made aware of the value of MA and MSc qualifications, for which less qualified

Grading 'unsound and undesirable'

The grading system in higher education is educationally unsound and socially undesirable, according to a book published by the National Union of Students. *The Grading Game*, by Brian King, describes different types of academic assessment, profiles and argues that any method of assessment of a student's knowledge and aptitude may vary considerably from student to student.

If this was so, it was a fallacy to insist upon uniformity in assessment methods in the name of usefulness or fairness. Mr King says: "I am not so much concerned to make the educational competition fairer as to make education non-competitive."

He concludes with the best example he knows of an academic profile, the graduate profile of the Birmingham School of Architecture. *The Grading Game*, from NUS Publications, 4 Endsleigh Street, London, WC1, price £2.20.

Museum loans go on despite V and A cuts

The Victoria and Albert Museum will continue to circulate in local museums, colleges and universities about 90 per cent of all material presently available, despite the closure of its regional services department.

Mrs Williams, Secretary of State for Education and Science, announced in a written Parliamentary answer last week that she had decided to implement the proposals of Dr Roy Strong, director of the Victoria and Albert, to close the department in order to meet the 10 per cent Civil Service cuts.

She also said that the Government was preparing a scheme to indemnify loans to selected museums. This would enable the Victoria and Albert to make objects available without requiring payment for insurance.

In addition, the Standing Committee of Museums and Galleries would be holding a conference in circulation material, with a view to improving access to national collections.

Dr Strong said this week that the department's work, which involved organizing the removal of exhibitions from one place to another, could be done by three members of staff, and the staff who were engaged in making new exhibitions would be redeployed as far as possible in other parts of the museum.

The museum is required to lose 81 of its 700 jobs by April next year.

While the closure of the department represented the end of a tradition, he said it was time to examine whether the country should move towards a national museum service, or whether regional museums should lend their own exhibitions to each other.

Sponsorships up to £500

Mrs Williams, the Secretary of State for Education, has announced that grant regulations are being set to allow employers to give up to £500 to sponsor students in their local area.

The new regulations will allow employers to give up to £500 to sponsor students in their local area. The new regulations will allow employers to give up to £500 to sponsor students in their local area.

Stirring the blood

The first conference took place at Schloss Leopoldsdorf in Salzburg, and was the first of five international forums which were held in September, 1976, in Washington. At Salzburg I was to chair a session on popular culture and to deliver a short paper. Having spoken for the requisite 20 minutes (this being the agreed maximum for a "conference man") I was duly cut down to size by an Irish delegate who claimed to "speak for the gutter"—a claim I was in no position to challenge. He was not my only opponent, but he was the one who I naturally enjoyed every minute, though little sticks in my mind now except the courteous hospitality of the Salzburg seminar and two or three sessions when, for one reason or another, stirred the blood.

During the opening address, for example, an English novelist, who had been invited to give a paper on "The novel as a genre," was interrupted by a member of the audience who asked him to give a paper on "The novel as a genre."

Another session which raised collective blood pressures was a general one on the future of American studies in Europe. Following two excellent papers which were promptly ignored, one of the American conference organizers carried away by who knows what surge of liberal guilt and academic integrity, invited us to say that American money was a constant threat to our academic independence—in other words that they were crooks and we were corrupt.

For a few seconds everyone stared at everyone else as mutual suspicions crystallized. The ghost of Henry James materialized, belatedly and swiftly withdrew. Then a Frenchman, ever obliging, stood up and denounced American academic and economic imperialism, setting the liberals with all the eagerness of a Labrador puppy who has just captured a stick from the post, pit.

Ethel's blessing

Washington is a strange city: a neo-classical jungle. You have never seen such a superstructure. But they are working in the other end too. They are building a subway system, like a culture rising to the surface, and the culture is the subway. And simply to move around this city is an education. If the Smithsonian buildings in which the conference took place constitutes the egg, then the movement for the higher education and the culture is the hen. And the hen is the Smithsonian Empire.

As I ate my sweetbread in white wine and calculated the cost of each mouthful, so Ethel, who had progressed gracefully from table to table bestowing social blessings as she went. Her meal was left to cool on the table. Presumably one has a good meal before venturing forth on such missions. Moonshine Ralph Nader, who had just delivered a paper on "The car as a mode of transport," blubbed pathetically on pieces of bread roll as though they were the soft white fingers of some predatory executive who had dedicated his life to polluting the environment with inherently dangerous machines.

Now the year of the conference is over; 1977 is the bicentennial of the War of Independence, but as a nation we have a greater sense of nostalgia for defeats than for victories. Now there are no countries left with softer currencies than our own. Unemployment has never been so general. I am back to ships old and beginning to turn my mind to the vexed question of chess sets in the elegant contemporary. Summaries or roundabout. The other day I even saw a student. But that way lies madness.

Peanut filler

A year or so later came Washington. This was the grand slam which brought people from the five regional conferences which had been held on different continents. It was well organized, the participants were distinguished, the enter-

should be placed on formal written examinations and more on project work.

Postgraduate research is under attack, says the paper. It says the suggestion that research should be geared to the needs of society and that economy is "quite absurd."

"This would lead to research being done for profitability rather than academic excellence, and if taken to its logical conclusion would end all pure arts research."

The NUS finds incite acceptance of industrial and business interests within the research sector "very disturbing". It says that there are already cases of industrially sponsored students being prescribed very narrow projects and often being "kicked away from projects" by their out-producers in their sponsoring industry.

Proposals to introduce a taught course to PhD level were misguided, though a taught induction course should be given from September to December to first year PhD students.

The paper says there are 9,000 self-financing postgraduates, as many as 25 per cent of whom are forced to stop studying because of the recent increase in tuition fees.

This would cause distortion in postgraduate education. In subjects where there was inadequate financial support study at postgraduate level would virtually cease in all but the largest institutions.

The decline in this area, particularly in the arts, non-business social science and non-qualified science, would have a major impact on its teaching at undergraduate level.

Transport studies on the way

A new academic subdiscipline has appeared on the fringes of social science and engineering—transport studies. A group of teachers from universities and polytechnics, who were engaged in making new exhibitions would be redeployed as far as possible in other parts of the museum.

The museum is required to lose 81 of its 700 jobs by April next year.

While the closure of the department represented the end of a tradition, he said it was time to examine whether the country should move towards a national museum service, or whether regional museums should lend their own exhibitions to each other.

3 awarded chairs

Strathclyde University has promoted three readership chairs to personal professorships in recognition of academic distinction. They are Dr Francis Fish, department of pharmaceutical chemistry, and Dr John Sherwood of the department of pure and applied chemistry.

OU still waits for grant

The Open University has received its black grant from the Department of Education for the year 1976-77. The grant, due last July, has been delayed by changes in the government's financial policy.

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UGC sets up Atkinson study

The University Grants Committee has launched a series of research studies on the implications of the Atkinson report on central provision for university libraries, published last summer. The decision follows a meeting with the Association of University Teachers which expressed the concern of many members about the report's implications.

Critics are that university librarians were not sufficiently consulted before the report was produced; that it took no account of the differing research needs of institutions and their proposals that after reaching a certain size libraries should be reorganised on a cost basis.

A steering committee is being set up under Dr Anne Whitman, vice-principal of Lady Margaret Hall, Oxford, and a member of the UGC, to coordinate the studies. The committee will comprise UGC members, various research interests and will supervise the research studies.

Topics likely to be covered include the costs and best methods of reorganising stock in storage and the needs of research.

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Sponsorships up to £500

Mrs Williams, the Secretary of State for Education, has announced that grant regulations are being set to allow employers to give up to £500 to sponsor students in their local area.

Stirring the blood

The first conference took place at Schloss Leopoldsdorf in Salzburg, and was the first of five international forums which were held in September, 1976, in Washington. At Salzburg I was to chair a session on popular culture and to deliver a short paper. Having spoken for the requisite 20 minutes (this being the agreed maximum for a "conference man") I was duly cut down to size by an Irish delegate who claimed to "speak for the gutter"—a claim I was in no position to challenge. He was not my only opponent, but he was the one who I naturally enjoyed every minute, though little sticks in my mind now except the courteous hospitality of the Salzburg seminar and two or three sessions when, for one reason or another, stirred the blood.

Ethel's blessing

Washington is a strange city: a neo-classical jungle. You have never seen such a superstructure. But they are working in the other end too. They are building a subway system, like a culture rising to the surface, and the culture is the subway. And simply to move around this city is an education. If the Smithsonian buildings in which the conference took place constitutes the egg, then the movement for the higher education and the culture is the hen. And the hen is the Smithsonian Empire.

Campus trends seen through media eyes

The New Left has been analysed in the past from the death of the university in the spirit of the last great era of industrial capitalism. Every where, academics and non-academics pointed to the disturbances as evidence that "the old is dying and the new cannot be born," and then told us what it was. But as we know, commentators, however significant by their writings on the importance of the events they are analysing.

Grading 'unsound and undesirable'

The grading system in higher education is educationally unsound and socially undesirable, according to a book published by the National Union of Students. *The Grading Game*, by Brian King, describes different types of academic assessment, profiles and argues that any method of assessment of a student's knowledge and aptitude may vary considerably from student to student.

Museum loans go on despite V and A cuts

The Victoria and Albert Museum will continue to circulate in local museums, colleges and universities about 90 per cent of all material presently available, despite the closure of its regional services department.

Two science sisters take very different paths

The first two or three years of the present decade saw a notable burst of activity aimed at broadening the science and engineering curriculum in universities and polytechnics. The Nuffield Foundation in particular started several projects to make these students more aware of the social context of their work.

Two of the most ambitious schemes launched under Nuffield's financial wing were General Education in Engineering (GEE) and Science in a Social Context (SISCON). Both have thrived, and the latter recently flew from the Nuffield nest to find sponsorship from the Leverhulme Trust.

They had the same original objective—to produce teaching materials to broaden the curriculum—but this common aim has taken the two sisters down very different paths.

SISCON is providing teaching/learning material in self-contained units, which are distributed in book form. About half are written by individual authors and half by pairs or groups.

The programme will take a major step forward next month when Butterworths begin publishing and marketing their units. They will be released twice a year in batches of 10. The first batch will range from *Technology and Survival* by Ernest Braun and David Collingridge of Aston University, to *Darwin to Double Helix: The Biological Theme in Science Fiction* by Leonard Isaacs of Michigan State University.

The main thrust of GEE, on the other hand, is directed towards encouraging and supporting engineering undergraduates' "socio-technical" projects. This is felt to be a more productive approach than injecting into engineering studies parallel courses of complementary social education, which suffer from two serious weaknesses. First, it is difficult to get good people to teach them because of their low prestige; and secondly, the hostility of "pure engineers" and, secondly, the links between the design of physical systems and issues of social policy are frequently not made clear to students—bits and pieces of half digested subject matter litter their minds.

Many academic engineers will agree that the most important thing they teach is problem solving. Provided that socio-technical projects are formulated as problems and not ostentatiously as belonging exclusively to another profession or discipline, lecturers may accept their validity and the challenge of supervising them.

The choice of project is left to the individual supervisor and his students, but GEE provides a good range of supporting services. A project register and library of final reports is maintained at Imperial College, London. Workshops for project supervisors are held twice a year (the next one will be at Corpus Christi College, Oxford, from March 29 to April 1). A project supervisor's manual, outlines of possible projects and packets of related resource materials are available. There is a standard grant of £20 to cover the cost of the project report, and outstanding work can win prizes up to £250.

GEE projects normally work on the "micro-level", says the programme coordinator, Dr Frank Svenson, of Stirling University, whereas SISCON operates on the level of public attitudes and policy.

The history and structure of GEE are further explained in the early days of an expanded wider range of activities, and some SISCON-style teaching materials were produced, including an interesting study of the problems facing an entrepreneur who wishes to start an engineering firm. But today GEE's energies are concentrated on the projects programme, whose title was recently changed from Urban Crisis 2000 to Socio-Technical Engineering Projects Programme (it was to be known by its acronym STEPP until it was realized that this might be confused with STEP, the Science Teachers Education programme).

The extent of the programme beyond urban problems coincided with the end of the three-year secondment from Aston University of GEE's coordinator Dr David Bracher. The active coordinating role has passed to Dr Svenson, though Dr Bracher remains closely involved.

In theory the GEE approach should fit in well with the structure

of BSc engineering courses in British universities, in which one third of the final year is normally devoted to student projects. "This is the only liberal element within an engineer's education", says Dr Bracher, "but it is surprisingly free in some departments".

The majority of the 98 GEE projects registered so far have been slotted into the final year in this way. However, Mr John Mullox, director of the Nuffield Foundation, points out that some engineering departments insist that third-year projects must be 100 per cent technical, and in these cases GEE projects have had to be squeezed into the second year.

None of the half dozen Nuffield-inspired programmes to reform news of higher education caught on with anything like the enthusiasm generated by Nuffield Science in Schools. As Mr Fiddox says, academics are much too individualistic to accept broad changes in the curriculum in the same way as schoolteachers.

GEE faced a particularly hard struggle because "engineering departments are the most conservative of all", he says.

SISCON started out with a wider market and this has given beyond science departments in reach sociology, political scientists and economists. In some extent, therefore, the reverse role of bringing the issues of natural science and technology to social scientists has been added to SISCON's original aim of widening the scientific curriculum.

The written units, which are designed to occupy a third of a student's time for three weeks, constitute SISCON's material output. The project also operates on a larger scale, encouraging the design of new science degree courses with a social emphasis.

The dozen universities and polytechnics that make up the SISCON consortium all offer such courses. Examples include liberal studies in science at Manchester University, integrated science at Stirling University, and science and society at North East London Polytechnic.

Unity has not been one of SISCON's strengths. Some members felt that a few of the early units were too poor in quality to be published, and there have been keen arguments about the direction in which the project should be moving.

Professor Michael Gibbins of Manchester University put it this way when he took over from Dr Bill Williams of Leeds University as SISCON coordinator last year: "Not surprisingly, because they represent the first tentative offerings to a wider public of our industrial teaching, the units are uneven—in terms of intellectual rigour and style. None the less we have now a much better grasp than formerly of the range of materials being taught within the SISCON net."

On the other hand this greater awareness has not brought much in the way of unity in the SISCON organization. There is still as wide

a range as ever of viewpoints concerning the role of SISCON-type courses in higher education. This is not bad thing, provided the diversity does not lead to factions, which I fear have occurred in some cases. It appears that there is a sharp difference in the perception of the role of SISCON between the universities and the polytechnics and other institutions of further and higher education.

"In addition the claim is made that the former dominate the SISCON council, thereby imposing their will. Be that as it may, steps are now being taken to broaden the base of the council to include a wider range of representatives. I hope that this will help to break down sections of the misunderstanding that has developed."

SISCON has spent about £600,000 so far, and at least £400,000 more will be available over the next three years. There are currently two full-time SISCON research fellows, Dr Glyn Ford at Manchester and Dr Russell Mursley at Sturges, and the project has enough money to finance a further four research fellows, but the council decided recently to support only two more fellows and to spend the extra funds persuading as many higher education institutions as possible to join the project.

The GEE short-term initiative is to make sure every engineering department in the country knows that the programme is still going. As Dr Svenson says, some 1,000 letters have been sent to 1,000 institutions thought it finished when its initial

three years' Nuffield grant ran out last November. "We're bringing them back to life again, with renewed vigour for another two years. Some of the 98 GEE projects involving 291 higher students from 25 universities and polytechnics would have been carried out without GEE existed, but the units have ended up isolated in the various universities. Through GEE, good practice is now available as a basket work."

"I think GEE met a real need in the engineering education sector," said Dr Svenson. "A lot of very interesting related things are being done."

Projects do not need a high content to qualify. Some are essentially orthodox technical subjects with perhaps a 10 per cent social element, says Dr Bracher. Others have been 75 per cent technical. Topics have ranged from a study of the engineering environmental implications, underpinning the lower sea the Grand Union Canal, to the performance of an engine since its re-ignition in 1974.

SISCON and GEE keep in touch with one another's activities through bodies have come before, such as Dr Bracher's enthusiastic attend both GEE and SISCON meetings. But GEE and SISCON are likely to continue to have separate public

New Australian universities 3—Murdoch



Many stars born in these trunk courses?

In the third and last of this series Peter Wilby looks at Western Australia's newest institution

The growth prospects for Murdoch, the new university in Western Australia, are marginally brighter than its sister, Griffith University in Queensland. By 1978, it is expected to have 2,200 students (instead of the 2,800 originally planned) while Griffith will have only 1,300 in 1979.

This is partly because, unlike Griffith, it has a scheme for external correspondence studies. But, in the long-term, the outlook for Murdoch is perhaps less bright, because the projections for increases in higher education enrolments are lower in Western Australia than in Queensland.

Murdoch has six schools: environmental and life sciences, education, human communication, mathematical and physical sciences, social inquiry, and veterinary studies. Where Griffith has chosen to make the schools cohesive, Murdoch's academic structure emphasizes links between the schools. A quarter of the student's first year, for example, is occupied by "trunk courses" (there is no end to the terminology) which are offered across the whole university.

The choice is between perception, cynicism and myth (which ranges from biology to philosophy) in world in transition (including insights from literature, social science and physical science), and energy and life systems.

The description of perception, cynicism and myth echoes the thinking behind Sussex University's language and culture, preliminary course. "At the end of this course, students are expected to be able to view the acquisition of knowledge in terms of the inter-relationship between perception, codification, communication, myth and theories; to have extended and examined their own value systems, acquired knowledge as well as intellectual inquiry, increased their ability to express themselves lucidly; to adopt a sympathetic attitude towards other cultures; to have established for themselves a sound base for future studies."

For the remaining three-quarters of the first year, students have a choice of courses that will meet the prerequisites for part two programmes. The idea is that they should leave themselves some room for manoeuvre. Some of the part two programmes are interdisciplinary, frequently transcending the schools: Chinese studies, communication studies, environmental sciences, computer studies, world resources. Then there are human development (combining aspects of biology, psychology and sociology) and peace and conflict studies. The latter is dubbed Irenology (after Irene, the Greek goddess of peace) and combines the insights of law, psychol-

ogy, anthropology, sociology, economics and history.

Most intriguing of all, Murdoch has a programme in general studies which will provide students with a general education, an emphasis on breadth as well as depth, and at least an introductory course of both scientific and non-scientific inquiry and on the development of skills.

There are also a number of specialist programmes—chemistry, economics, history and physics, for example. The conclusion of the need to prevent the university from being a "one-trick pony" is a programme in general studies which will provide students with a general education, an emphasis on breadth as well as depth, and at least an introductory course of both scientific and non-scientific inquiry and on the development of skills.

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David Walker asks whether the regional conferences can really produce any results

Too many hushed voices as the speeches begin?

Is "the great debate" going to be just another long-winded affair of educational voices reading set speeches from entrenched positions? Or will it be a Government which has already decided what it plans to do in the schools?

This is one cynical and widely-held view of the series of regional conferences that begins with a day-long meeting in Newcastle today and continues through seven other regional centres to the end of March. There is some justification for it.

Yet, public relations exercise or not, the great debate is a startling departure from Department of Education traditions. The form it is taking bears a family resemblance to the recommendations of Miss Joan Fookes's House of Commons Committee for a national forum for discussing educational policy. In principle, the series of meetings could be what the Prime Minister regarded in his speech at Ruskin College last October.

It was in that speech that a number of educational discontents of recent years crystallised. There was the growing critique of child-centred methods, the demand for a tougher school discipline mixed with a general, and formally unsubstantiated, concern about "basic standards of numeracy and literacy".

The latter worried with the retirement of the business and industrial world of the discontents with both the supply and quality of school leavers and graduates seeking jobs.

During 1976 hints had been dropped about the need for government to enter once again the "great debate" of the curriculum, which it was said was being monopolized by the teachers. Criticisms of professional power were stimulated by the long drawn out story of William Tyndale School in London, and a widespread but again unapproved assertion that the expansion of teaching in the 1960s had added to a number of people unqualified both in their formal skills and in their informal administrative concerns. To Miss Fookes's committee urged a more active role for the DES and for the Inspectorate.

The recommendations of the Seligson Council, and by implication the composition, were lifted off from many sides over the issue of "a national examination" to replace the GCE level and the Certificate of Secondary Education.

But the Prime Minister spoke moderately. His points were about the curriculum and standards in the schools and a wider sense of in-house responsibility for the education system—not exempting the universities and polytechnics—served the needs of the country was the Government's *sine qua non*.

Mrs Shirley Williams, the Secretary of State, then on one side, got together the established educational interests to work out the agenda for the debate. It turned out to be a debate about the schools, not education in the wider sense, and there is no provision for a discussion of the provision for adults, higher education as such, and further education only peripherally.

The agenda, as convolved by the DES, was issued last week in the *Shaping Our Children*, a booklet of 127 pages, which is a background document not representing Government thinking, but it

would take a particularly strong-willed public not to find in it a number of hints about present DES policy. It starts with a disclaimer to the effect that since the 1944 Education Act, growth, more teachers, more children taking and passing public examinations at 16 and 18.

It is then divided—like the day-long meeting in Newcastle today—into sections on the use of 16, the assessment and monitoring of standards in schools, the education and training of teachers, and the general relationship of school and working life. Four of these are on proposals for public in-service training of teachers, and a minimum standard in a prescribed number of basic subjects: mathematics, English, science and a foreign language; on the need for more in-service training of teachers; and on better education about careers.

The document avoids all discussion of institutions and methods of organizing education. The comprehensive organization of secondary schools is not mentioned, nor are the various ways of tying teacher education in with polytechnics, universities.

After initial hesitation, all the main teacher unions have come round to active participation in the great debate, not least because it offers a chance to talk. But the largest organization of primary and secondary teachers, the National Association of Teachers, has not been entirely won over.

The NUT point to Mrs Williams's decision to stop the examination changes agreed by the Schools Council and evidence that great debate or not, policy-making by the DES has continued apace. Mr Fred Jarvis, NUT general secretary, said last week that he wondered about the debate's purpose.

But the Government will publish a consultative document in the summer containing proposals for further action. Mrs Williams adds her hope that the regional conferences will act as a lever on local authorities to get them to spend more on in-service training or, alternatively, strengthen their hand in arguing for direct central government grants for such purposes.

What is the great prospect of the debate, in the briefing paper which the Association of University Teachers' representatives are taking to the conference, the hope is expressed that the debate will not be used to distract attention from the "undermining of all education in the present period of expenditure cuts". The AUT, however, like the representatives of Newcastle University attending today's meeting, will take a back seat.

The National Association of Teachers in Further and Higher Education, which like the other organizations provided a list of questions for the DES to reply to at the conference, has also heard its long-anticipated policy on day release. In-service training for teachers—and the jobs involved for college lecturers—is also high on NATFHE's private agenda for the meetings.

By courtesy of the television authorities the great debate has been given a run-in during recent weeks, with a series of studio discussions. Will the regional conferences offer more than these? Mrs Williams's personal style will no doubt stamp itself on the Midlands and Birmingham conferences also. Some pre-emptive unheeded voices may be raised.

But for all the noisiness of the experiment, it is not clear the DES will hear anything from the conference. It does not get from the deputations that arrive at Blenheim House or from the specialist committees—such as that led by Mr Tom Taylor on school governors and homogeneity—set in motion by the Government in the wake of the *Shaping Our Children* from Room 1/27, DES, Elizabeth House, York Road, London SE1 7PL.

Recruitment is growing at what the colleges see as the university's "unfair escape from teacher education cuts." Judith Judd reports

Why must colleges carry the can?

The mounting of college of education lecturers against the university department of education have been in the air since the late 1970s and college closures.

By 1980 the numbers in colleges will have dropped from 114,000 eight years ago to 45,000, including 10,000 in-service places. In the universities the figure will remain steady at around 5,000 and there is every indication that the Government intends things to stay that way. In 1981 the number of post-graduate certificate of education students in universities should be the same as in colleges.

The National Association of Teachers in Further and Higher Education has been quick to point out how drastically this alters the proportions in teacher training. In particular they are concerned about the imbalance between the number of students and PGCE students.

In a statement last month the union's national executive committee said there would be 9,000 BEG and 10,000 PGCE students. "The association believes that nine years of professional training is not enough for the majority of teachers and the balance should be redressed so that a clear majority of new entrants to the profession come from courses with a longer period of professional training."

"NATFHE also considers that the proportion of PGCE students in the universities should not be increased, as the colleges are well equipped to undertake postgraduate training."

Why have the universities escaped the axe? Do they still have a role in initial teacher training? The obvious answer to the first question is that Government control is much weaker. Mr Francis Cammatts, vice-president of NATFHE and principal of Rolle College, Exmouth, says: "We feel that the axe should not be borne exclusively by the colleges though we understand the difficulties in the way of making university departments cut their numbers."

We feel that the whole pattern of teacher production, including the out-of-college university courses, must now be carefully planned. The DES should bring a good deal of pressure to bear to ensure that there is a rationale in secondary training and encourage certain specialist out-jobs.

But is this possible with a relatively high proportion of places in the universities? They, naturally, view the retention of their quota differently. Professor R. D'Aeth, director of the School of Education at Exeter, argues that while there is much sympathy for colleges in the universities, their ideas about members are based on a misunderstanding.

Numbers in university departments were held back in the 1960s in order to allow for expansion in the new polytechnic colleges. The figure of 5,000 is regarded by many education professors as an absolute minimum to keep the system ticking over.

They also believe that the independence from Government control which worries NATFHE and which has contributed to their escape from cuts is a strength rather than a weakness.

Mr V. G. T. Roosevelt, advisor to teachers at London University Institute of Education Centre for Teachers, says that it is in their independence of local authority that the departmental control that the real value of university departments lies.

"On the surface many of our courses look very like those in many ILEA colleges but there is a subtle difference, mainly in our approach. We are uncommitted people and students leave our course with a very open mind about the education system."

The example he gives is that of teaching French. "In ILEA schools it is probably the advantage of a local education authority which must concentrate on cost and efficiency."



The two silos—London University's Institute of Education, top, and St Luke's College, Exeter.

colleges have. But he is not, of course, trying to do himself out of a job. The way forward lies in reform.

He says that the departments which once supplied the grammar schools with teachers must find a new rationale to match the massive changes in the secondary school system which have taken place in the last few years. The Oxford department has found its rationale in forging new links with both Oxfordshire schools and the university as a whole. The task which university departments have traditionally performed can now be done just as well by the colleges, he says. The smaller departments should close.

Dr Taylor, however, takes issue with this. He says that the universities have resources in terms of libraries and computer facilities which colleges cannot muster. Research work is vital and very little of it is to be found outside universities. For this, the PGCE is an important base since valid research cannot be carried on in a vocational setting.

On the smaller departments he admits there are problems. What happens if the one lecturer in a subject is sick? But he is firm that the solution does not lie in closure. Each region should have access to the facilities which a department can provide. The answer for small departments is to specialise.

Dr Judge remains sceptical. Getting the smaller departments to specialise is all very well but who is going to make them do it? He says there is no body under the present system which would be prepared to carry out a rational distribution of places.

The most complicated issue in the whole debate is that of concurrent versus consecutive training. Both sides agree that there is not enough evidence available of their relative merits. Mr Cammatts feels that a single year of practical training is not enough to equip student teachers for the problems they will find in urban primary schools and the mixed ability classes of the comprehensive schools. Hence NATFHE's concern that nearly half the teachers being produced in the 1980s will have received only one year of training.

This proportion may change when the effect and extent of the Dilno as a route into teaching is clearer but, as Mr Cammatts says, not all Dilnos are relevant to teaching. The one-year course would worry him less if there were a good programme of induction and in-service training. Despite Government declarations of intent on in-service training.

Dr Taylor, too, is cautious about training methods. It is an issue which will have to be thrashed out, he says. He agrees that for some types of teaching it may prove better for the student to have contact with children for a longer period and from an earlier stage. At the moment there is no evidence to show that concurrent training produces better teachers.

NATFHE's worries are about to be reflected in Government action. Despite rumours of cuts in university places the University Grants Committee expects there to be only a slight reduction in numbers to education departments this year.

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Genetic researchers win important victory

The Cambridge City Council has formally lifted its ban on genetic research at Harvard and the Massachusetts Institute of Technology, but has imposed safety regulations that are far more stringent than those proposed by the government last summer.

The guidelines from the government's National Institutes of Health grade DNA research laboratories from +P-1+, similar to an ordinary school laboratory, to +P-4+, enclosed by air and shower chambers. All potentially dangerous and unproducible experiments, including all those using DNA from mammals, have to be conducted in at least P-3 laboratories. MIT has one, and Harvard is now constructing another.

The guidelines also insist that the host organisms to be specially mutated so that they have only a minute chance—one in 100 million—of surviving outside the laboratory environment.

The Cambridge ordinance goes further by outlawing all P-4 research and requiring that all P-3 research use the altered organisms, known as EK2. The need to mutate the host organisms is seen as all the greater because almost all the bacteria used in DNA experiments up till now are E. coli bacteria, which in their natural state live in the intestines of humans. The fear is that

New York fights to retain two graduate programmes

The vast State University of New York system is locked in a quarrel with the state Education Department over a proposal to close two graduate programmes at SUNY campuses.

The Education Department last year refused to "register" two graduate programmes in English and history at the Albany campus, because it said they were not academically good enough.

No education course can be offered in New York unless it is registered. The State University disputed the right of the Commissioner to close graduate courses, went to court, and lost. It now plans to appeal to the State Supreme Court Appellate.

The appeals do not look good for SUNY, however. The Education Department has regularly inspected graduate programmes since 1972. There is a panel of distinguished teachers from other states, who report to the state Commissioner. But other universities, both public and private, have accepted the panel's verdicts and have usually terminated condemned programmes voluntarily.

SUNY maintains that a 1951 law gives the trustees authority to administer the internal affairs of the university. It indicates that the State University is to become an agency and not subject to the same requirements imposed by the Regents and the Commissioner on private institutions of higher education in this state.

The judge flatly rejected the claim. Moreover, his rejection had the eager support of other universities in New York, which did not want to see SUNY being treated as a special case.

The Commissioner's office says the decision not to register the two Albany programmes was taken purely on academic grounds. It was not based on the need to cut costs or the fear that too many graduates would be unemployed.

Other questions which are also very real issues—such as the need to cut costs or the fear that too many graduates would be unemployed—are tackled separately.

SUNY also argued that, as the criteria for closing a programme were not known, the action was not arbitrary. But the court agreed with the Commissioner that any university offering doctoral programmes ought to be aware of widely accepted minimum standards for such a course within the academic community.

\$208,000 for career education project

La Guardia Community College of the City University of New York has been given \$208,000 by the US Office of Career Education to develop a model of career education that could be adopted by two-year community colleges throughout the country.

In the second of three articles on tenure, our correspondent looks at the arguments in favour of

Freedom of word (and deed)

Almost everyone agrees that academic freedom is a prerequisite of a healthy university system in the United States. And most agree that the best guarantee of this is the system of tenure. The important date for the present pattern was 1940, when the American Association of University Professors last revised its declaration of principles. These principles are still the basis of most tenure arrangements.

The 1940 statement has four main provisions: Permanent tenure can be acquired automatically, without any particular act by the institution, simply by length of service of the teachers.

Permanent tenure is not confined to holders of any particular academic title, nor is it confined to those who have served for a stated period in any particular rank. An instructor, assistant professor, lecturer, and so on, holding a full-time appointment gets permanent tenure after the same probationary period as an associate professor or professor.

The probationary period should in general not exceed seven years, beginning with the first appointment to the rank of full-time instructor, including within this period full-time service in all institutions of higher education.

On a teacher who has held full-time positions in other institutions should get permanent tenure if he has served elsewhere seven years.

The probationary period of seven years can be extended only if a teacher after probationary service of more than three years in one or more places agrees in writing that his new appointment is for a new probationary period of not more than four years. Since a full year's notice is required, the teacher in effect is assured of permanent tenure in his new position if he receives no notice of non-renewal of his appointment before the end of his third year of service.

These rules are the strict interpretation. Many colleges have adapted variations. For example, they often only give tenure after promotion to the rank of professor. The AAUP agrees to this if the promotion to tenure positions is within

the maximum probationary period. Universities often have an "up or out" practice, which says that after a specified number of years a teacher must either be promoted or sacked.

The probationary period is the essence of most tenure agreements. The AAUP thinks seven years is about the right length of time: but some institutions—Princeton and the University of California, for example—insist on eight or nine. Generally it is in the humanities and social sciences that more time is needed before judging whether a teacher develops original and important research. In science a prediction of quality can be made more quickly.

Arguments over tenure often centre on the length of the probationary period: in poor market conditions (such as today) there are pressures to shorten it. There are even suggestions from the more uninformed American Federation of Teachers, that tenure should be automatic and instantaneous on appointment.

The probationary period is generally recognized as essential, lawfully and justly, to make a serious judgment at the end of it. Tenure is generally considered a guarantee of appointment until retirement age. It is not an absolute financial protection against dismissal—dismissal by contract law is still possible, but it would be inimicable to the liberal arts. Luckily, because of tenure it could not be done as a stroke.

Academic freedom also took on insidious forms: there were strong political pressures on a teacher to accommodate his honest political views to the conventional wisdom of the day. The point is as in Galileo's case, that he was not asked to give up his views, but to keep them quiet.

But this reasoning does suggest that only those with tenured full academic freedom—and those without are less than equal. Conceding the Orwellian practice of the AAUP argues that the rigour of due process was not because dismissed teachers had their time and energy in a discipline and institution. The non-renewal of a probationary period was less than a blow to a younger, more mobile teacher.

These arguments have long been conventional wisdom in American universities. But there are now other post-secondary education institutions—trade schools, technical academies, fur example—where there have never had tenure. The new universities, such as the University of the Pacific, are now offering similar systems. The tenure system is being challenged on home ground.

Next week: Alternatives to tenure

Biggest protests since 1968 hit Rome

Thousands of students last week occupied university buildings, paraded, staged strikes, held demonstrations, staged protests, held endless protest meetings and marched slogans on walls as the Italian universities seethed with revolt.

The spark which set it going was an incursion into Rome University Campus by a group of forty youths who opened fire on a crowd of leaving students. One was shot in the head and is likely to remain permanently disabled. The incident was followed by another shooting in the next day involving an extreme left-wing group.

But already tension had been running high in the universities over the attempted curtailment by Signor Franco Maria Malifatti, Education Minister, of the few improvements introduced after 1968—the students' right to plan, with their professors' approval, their own degree courses.

Two degrees are awarded after a given number of examinations, which have passed in the various subjects included in the degree course. These examinations can be taken at various points during the course. With the encouragement of their professors, many students had studied for, and sat, examinations in the same subject for several years running, not in order to repeat the same examinations out of laziness, but because each year the subject was studied from a different aspect and they wanted to gain deeper knowledge of the field.

Signor Malifatti's instructions, apparently based on the suspicion that some students were in fact repeating the same examinations out of laziness, and the practice should stop. The order was later countermanded by the Parliamentary Education Committee, but by then the protest movement had gathered momentum and was not to be stopped.

The discontent quickly developed into a general process against the Government's plans for university reform. These have not been officially published yet but the general outline is known and regarded by many students as reactionary and ill-considered.

One striking contrast last week with the 1968 situation was the attitude of the University's governing body. Professor Antonio Ruberti, a Socialist, instead of deploring the students' actions and calling the police as other rectors have done in the past, he seized the opportunity to go to Signor Malifatti and Prime Minister Giulio Andreotti to point out that the violence was only the result of the critical situation in the university due to years of neglect.

But the currents running under-

Mike Duckenfield, recently in Copenhagen, visits the controversial Roskilde University Centre

Innovator or 'Marxist School'?

Divided though they are about its future, both the government and university authorities, on the one side, and students and teachers on the other, are agreed that Roskilde University Centre is now completely out of step with the rest of Danish higher education.

In many ways it always has been: first, as an experimental model of teaching, especially new courses and teaching methods and later after a succession of serious internal disputes, culminating in last year's near-closure by Parliament, as an embarrassing anomaly defying government attempts to bring higher education under tighter central control.

A monument to the affluence of the 1960s, as one of the centre's three external rectors, Professor Erik Sig Jørgensen, calls it, RUC's present setting—a cluster of 27 one and two-storey prefabricated buildings straggled to the field four miles outside Roskilde—illustrates just how much plans have changed since the university was conceived in the late 1960s.

As a new campus university, which was expected to house 8,000 students by the early 1980s, RUC was to grow to meet new urban development in Roskilde, the communities joining in a complex of sport, recreation, shopping and social facilities. The centre was even to have its own railway station for quick communication with Copenhagen 20 miles to the east.

In the event, the town grew in the opposite direction and the centre fell victim to economic cutbacks. Today, it has no social facilities, save a canteen and 1,600 students, only 400 more than in its second year five years ago, with the prospect of at most 1,000 more by the mid-1980s. Transport depends on private cars and bicycles and an infrequent bus service.

The decision to create Denmark's first university was made in June 1970 following pressures on existing institutions created by a massive and virtually unrestricted increase in admissions during the preceding decade.

At the same time it was felt that students could be better served by avoiding early specialization by offering broad foundation courses, which it was hoped would reduce drop-out rates to almost as high as 60 per cent at older universities.

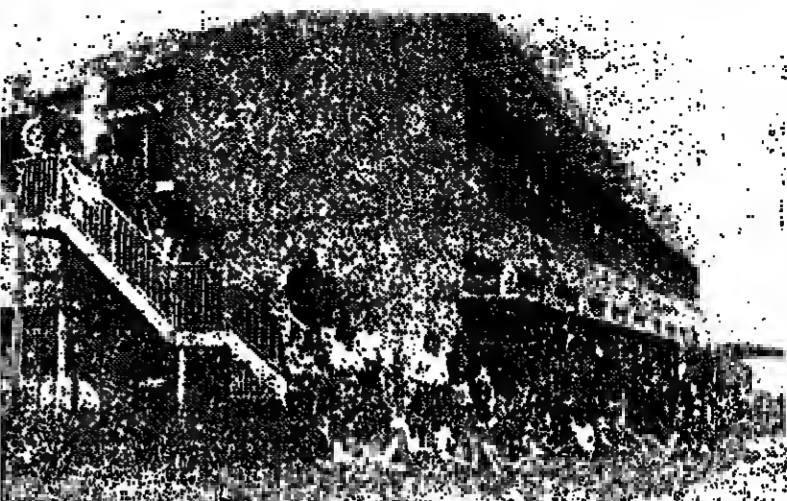
At the time, many highly-debated innovative ideas were being put under attack as a haven for Marxist, problem-oriented project work and socially and professionally relevant studies were to be put into practice.

The key aim was flexibility. Different types of study—academic and vocational, broad and long, broadly based and specialized—were to be integrated, students were to be able to decide how their studies should proceed and barriers between subjects were to be removed.

The centre offers medium-term courses as well as honours degrees and postgraduate courses in the humanities, social sciences and law.

The new education minister, Mrs Ritt Bergegaard felt that changes in the centre were badly needed to meet the needs of a society where the social sciences were to be given more prominence.

Under this revised system at



Staff and students outside one of Roskilde's "houses"

natural sciences. However, all students undergo initial two-year "basic studies" prior to specialization leading to careers in teaching, social work, research, management and nursing.

It is these basic studies which have been at the root of most of the controversy. They are based on project work, students choosing a problem to investigate on the basis of their own background and experience. Rather than make the fit into the theories of no discipline, theoretical knowledge is drawn upon from any subject as work progresses.

Projects are supplemented by other courses within the three study areas and, until recently, all students were based on internal continuous assessment by teachers and the students themselves.

Students usually work in groups of three to ten. Between six to a dozen groups, totalling about 60 students, their formal social and study units known as "houses", each of which has its own teachers, a secretary, common room and study facilities.

Conflict began even before the first 650 students started work in September, 1972. The first rector, Professor Ole Rasmussen, who was a Democrat, wanted centralized decision-making but was successfully opposed by the overwhelmingly young and progressive administration he had hired. They wanted decisions left to teachers and students.

Professor Olsen, who was subsequently defeated when he stood for re-election as rector, has become RUC's leading critic—calling the centre a "Marxist Sunday school" and criticizing academic standards as being too low.

By 1973 the centre was being affected by the economic recession. Phase four of the building plans—there were supposed to be eight phases—was postponed first for a year and then indefinitely. At the same time it was decided not to establish courses for trained comprehensive school teachers, though those for upper secondary school teachers were to be kept. Expansion was soon at a standstill.

A year later admissions dropped to only 400, the group was under attack as a haven for Marxist, problem-oriented project work and socially and professionally relevant studies were to be put into practice.

The crisis came to boiling point in 1975 when the newly-elected Socialist Democrat government insisted on a reorganization with studies being made more formal, featuring fixed courses rather than projects, and exams being assessed externally.

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Under this revised system at

Women intake 'Little link between field of study and choice of job' rises sharply

The number of women entering graduate and professional schools has gone up so fast in recent years that they now make up about half all first-year graduate students, according to statistics just published by the United States Census Bureau.

Between 1970 and 1975, when the last survey was taken, the enrolment of women rose about 75 per cent, while for men the increase was only 23 per cent.

In undergraduate education women also made gains: in the same period their enrolment went up 40 per cent, compared to a 21 per cent increase by men. In both cases, however, women are less likely to complete their courses.

In graduate schools their numbers declined after the first year. Women accounted for only about a third of the second, third and fourth year students.

The number of women getting PhDs rose 59 per cent between 1970 and 1975—from 4,600 to 7,300. In the same period, the Census Bureau said, the number of degrees awarded to men actually fell 2.6 per cent, from 27,500 to 26,800.

Good results will mean more places for mature students

More students have performed so well at Australian universities that opportunities for tertiary education are being substantially increased.

In the past few years most universities have eased entry requirements to encourage some older students to tackle university degree courses.

The results from the first year of the reported increase in places have established a clear upward trend. Older students are usually classified as "mature" and their age ranges in their 50s and 60s.

At the University of New South Wales, older students have been enrolled for the past three years in a special year studying together as a special group. The centre has 1,120 students, 450 of whom are mature students, 450 of whom are mature students, 450 of whom are mature students.

Graduates were also asked for courses they would recommend for job preparation, regarding the major specialism. The findings were of study recommendations were more administrative and occupational in nature. The most common recommendation was in the field of business, economics and accounting.

Extremists' Decree entering sixth year

West Germany's so-called Extremists' Decree, the agreement between the Federal Chancellor and the Prime Ministers of the Länder establishing uniform procedures for investigating the political reliability of applicants for public service posts, is now five years old. Despite the controversy surrounding it, it is still being applied in all Opposition-governed Länder.

The Bonn government and the Länder, under the Social Democrats, have to be examined. A report of the Bavarian Ministry of the Interior just published, which reviewed Bavarian practice since 1972, leaves two distinct impressions. Judging by the results the whole clearance procedure is hardly worth

the trouble the bureaucracy is determined to go to, and the administrative courts, which have become involved in most cases, more often than not found in favour of the initially rejected applicants.

Over the five-year period only 65 applicants have actually been rejected out of the many thousands of new appointments. Fifty-nine of those fall into the education sector. Twenty-five of those 65 rejected decisions have become effective because the applicants have been in the other hand, most generally use slightly less sweeping procedures. These, like the Hamburg regulations introduced last August, distinguish between civil service and other public employees.

Under this revised system at

1975-1976

The great post-school debate

The Great Debate on schools, which begins in earnest today with the first of the Government's regional conferences, ought not to be left to teachers, industrialists, professors of education and Whitehall mandarins. The universities and polytechnics have a crucial role, too. For higher education is one of the major consumers of school leavers and, without its cooperation and understanding, many of the reforms that are being proposed for the schools could be still-born.

There is a tendency in university circles to assume that the debate is about how the schools can be persuaded to return to the academic standards of former times. The result is a narrow, even, but nothing but good for the universities. But these are not the terms on which the Prime Minister launched the debate in his Ruskin College speech nor are they the terms on which the Department of Education and Science has continued it in the guidelines it has issued for the conferences. A quarter of the conferences' time is to be concerned with "School and Working Life" and, in its background paper, the DES notes the criticism that "the school system is geared to promote the importance of academic learning, whereas the result that pupils, especially the more able, are prejudiced against work in productive trade and industry."

If this criticism were to be met, the implications for higher education would be momentous. Britain has the shortest working week in the Western world precisely because the schools promote academic learning. British universities have traditionally relied upon school sixth forms to do half their work for them, and these in turn have relied upon the lower schools to prepare students for their work. The cost of three-year degree courses in physics and chemistry, for example, is a school science syllabus that starts tackling the hierarchy of abstract scientific concepts at the age of 13. The cost of high levels of proficiency in foreign language students entering university are school courses that neglect oral competence. The cost of starting university mathematics

Resources for science

Ever since the Science Research Council took over responsibility for funding scientific research from the Department of Scientific and Industrial Research in 1962, the Council has faced the problem of reconciling support for research programmes in its own establishments with that for the scientific activities of universities and polytechnics. Last autumn, the Council's mounting costs of the CERN subscription—when the falling value of the pound led to a temporary moratorium in new research grants, not only in high energy physics, but across the whole field—highlighted tensions that have existed for years. And although in this case a suitably face-saving formula was eventually devised, no satisfactory long-term solution has yet been found.

The problem is not merely one of money; nor is it confined to subscriptions to international scientific bodies, many of which can be legitimately defended on grounds of cost-effectiveness. The real problem, as Dr Norman Dombey argues in his discussion of the CERN issue (page 11), lies with the policy constraints implied by a long-term commitment to particular lines of research, requiring large investments of capital and manpower, and the inflexibility of funding in which this result is carried out to isolation.

Back in 1966, the Council for Scientific Policy warned in its first report that: "We must learn how to maintain scientific vitality and greater flexibility of employment and acceptance of change, and how to always be prepared in the face of a phase of rapid growth."

Max Beloff and the AUT

Sir,—We of course regret any resignation from the Oxford Association of University Teachers, especially of such a long-standing and distinguished member as Professor Beloff. On his reasons (*THE TIMES*, February 11), I would like to make it clear that the Oxford AUT condemned the agreement with the National Union of Students in which he refers on the grounds he gives; we submitted a motion of resignation for the December council; and the agreement is not recognized by us.

On affiliation to the TICU, while it may be regrettable that a professional association must look more and more to the realities of bargaining, it has to be recognized that to continue outside the body which speaks with the strongest voice to the government of the day as far as wages and salary earners are concerned is to put ourselves at an increasing disadvantage.

The universities themselves are being pushed inevitably into an "industrial" situation in their relations with their staff, academic and non-academic alike, and the AUT is the only body which can cope with this on behalf of the academic and non-academic staff. This need not entail any lack of loyalty to the idea of the university.

I know nothing of the position of the University College of Buckingham, but I may venture that on the face of it there would seem to be no reason why the staff there should not form a local AUT. It

Senate laymen

Sir,—The letter from the Clerk on the vote of the Senate of the University of London and its refusal to participate in the scheme he supports (*THE TIMES*, February 11). No mention is made of the fact that the Senate of Brunel University has agreed to accept the scheme. The fact that the Senate of Brunel University has agreed to accept the scheme is not mentioned in your article. The Senate of Brunel University has agreed to accept the scheme. The fact that the Senate of Brunel University has agreed to accept the scheme is not mentioned in your article.

The qualification for laymen to do this job is their own view on whether they have the time or not. Some convocations may have more people than others, but only incidentally. It is the appearance of busybodies who collect memberships like pellets. They are disqualified if they are not qualified to do the job.

At the moment, we have to admit that throughout the country in Britain, the role of productive industry in building up national wealth is very misunderstood. Since the Second World War, schoolteachers have been very successful in bringing new concepts into their teaching; young people are only too conscious that their own future depends on their own efforts. The need to conserve the environment and the importance of social welfare in a humane society.

But, alas, teaching has not grasped the vital importance of training in other countries so that we can contribute to international development and, in the process, increase our own wealth. Partly—and I write not only as an academic but as one connected also with industry—our own industry is being hampered for this reason. Industry desires itself in terms of "profit", "loss" and "growth", rather than demonstrating the way in which productive industry can be used to develop the resources necessary to finance the widening range of social programmes most people wish to see developed.

Some attempts are being made to remedy this, and it is encouraging to see the work of CBI in its programme "Understanding British Industry". But a major long-term task ahead of us is demonstrating to teachers the vital social role and relevance of productive industry.

Before we look at the problems which are posed for education and educationists, it is worth examining briefly the nature of the fundamental problem facing productive industry. It is a declining performance of industry, not a single cause of our economic ills; although many possible causes have been voiced on political platforms and in the mass media, it is more likely that our present difficulties are based on an accumulation of factors, leading to a declining performance of manufacturing industry in Britain.

For some years the country has had a deteriorating balance-of-payments position; this in itself is a function of the export performance of manufacturing industry, and although devaluation has put exporters in potentially strong positions in world trade, it seems that the country's export industries in general have found it more difficult to operate in an increasingly competitive world; this has led to an inevitable deterioration of our balance-of-payments.

Since the Second World War we have seen many different economic and monetary control mechanisms introduced to curb home-foreign trade; one possible effect of these controls has been that home demand for many of our manufactured goods has not been guaranteed sufficiently strongly to give the country a self-sustaining growth rate. We have failed to keep abreast of the capital investment needs of manufacturing industry in comparison with other industrialized countries.

Henry Chilver, vice-chancellor of Cranfield Institute of Technology, contributes the first of a series of articles on higher education and the needs of industrial society



'Relevance' must be seen in a long-term perspective

In the continuing debate of the nation's economic problems, industry itself in the arena of discussion. In recent pronouncements the Prime Minister has made reference not only to balance-of-payments and industrial relations problems, but also to the wider question of how our education system should help productive industry and the generation of the nation's wealth.

The Confederation of British Industry, in a recent report, openly criticizes educational attitudes to productive industry. A recent report of the Select Committee on Science and Technology, discussing extensively the apparent failings of higher education and research in the engineering and science-based industries.

That productive industry is now so squarely in the centre of national politics, and is bringing education into the discussion, is itself an important development in our thinking about our present national situation. In this discussion, what are the fundamental problems for education and, in particular, for higher education?

At the moment, we have to admit that throughout the country in Britain, the role of productive industry in building up national wealth is very misunderstood. Since the Second World War, schoolteachers have been very successful in bringing new concepts into their teaching; young people are only too conscious that their own future depends on their own efforts. The need to conserve the environment and the importance of social welfare in a humane society.

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Indeed, such an approach would achieve no success amongst young people, so many of whom are very critical of the consumer society and the profit motive within it. It must be shown that manufacturing logically enriches the lives of people both in Britain and abroad.

In the long term there is particular need for the country to understand more fully the role of scientists in industrial technology. Much of the advance of industrial technology in Britain in the nineteenth century was due to the work of scientists bringing new concepts into manufacture and service functions.

There is a danger in the present climate, when short-term problems are seen to be ones of engineering rather than science, that the role of the scientist may be under-rated in industrial technology generally.

In the long term we shall see more teaching activities in higher education conducted with industry rather than outside it. This does not mean only an extension of sandwich courses, but the involvement of teachers more widely within industry itself bringing to industries wider knowledge of new developments and ideas.

The linkages that universities and polytechnics have with industry at present are weak; one indication of this is the very small (and probably declining) amount of research which is commissioned by industry within universities and polytechnics.

In addition to teaching and research, institutions of higher education should take on a more disseminating role in society; they tend at present to retain knowledge within themselves and to publish this in rather earthy journals, not many of which are easily intelligible to potential users of ideas.

In the long term we shall need to organize ourselves nationally to be more effective in teaching and research in engineering and science; it is not at all clear that 75 or so independent institutions of higher education, each competing for scientific and engineering, and each adopting different policies, really helps the country to attain a high standard in industrial technology; there is a need for coordinating teaching programmes as well as research.

Higher education in the future will need to work more closely with industry in teaching, research and dissemination. It will need to do this not only through the present structures within higher education, but through the wider use of specialized units for these purposes.

There is a need for a more effective national organization in higher education of both science and engineering. In particular, there is a need for a major reform of postgraduate education in science and engineering, and for this to be related to long-term manpower needs in a more realistic way than is presently the case.

A philosophy that is developed of non-power needs must appreciate the growth of service functions and the role of scientists and engineers in them, as well as in manufacturing industry.

There is a need to understand the vital roles of scientists and scientists in industrial technology, as well as engineering and engineering. The Science Research Council could also greater force to the industrial significance of its work by limiting a part of its funds to institutions which can show a record of industrially-sponsored research in both engineering and science. In this way SRC could finance basic research in support of industrial leadership.

Next week: Dr J. A. Pope on education for industrial leadership.

First destinations

Sir,—In Sue Reid's frank-page report (*THE TIMES*, February 4) the statement is made that "70 per cent of Council for National Academic Awards graduates from sandwich courses and 43 per cent of those on full-time courses move directly into employment on leaving polytechnics compared with 40 per cent of university degree graduates."

As I have pointed out before the figures for sandwich courses are about the same for polytechnics and universities, and so are the figures for graduates from traditional full-time courses in both sectors. The differences are not between universities and polytechnics in this respect, but between traditional full-time courses and sandwich courses, of which there are more in polytechnics.

Yours faithfully,
S. L. BRAGG,
Vice-chancellor,
Brunel University.

History teaching

Sir,—Dr Moore's depressing picture of history teaching (*THE TIMES*, January 28) seems biased by his concentration on the general pattern of his failure to stress the exceptions in it. Certain history departments, including the one created but not imprisoned by Tout, and at least those of York, Birmingham and Sussex, are surely worthy of his appreciation. The fact that such departments are a minority is no good reason for their being mentioned. And why should history teaching be judged simply by what the majority of departments do?

Moreover, the general pattern seems less influenced by Oxford than he suggests. For example, nowadays according to R. P. Blows, the multiplicity of departments of British history in the Oxford group is only slightly in excess of the departments requiring a compulsory element in the "Ox" manoc. If the latter is justifiably dismissible as "only a handful" then so is the former.

Compared with most history syllabuses, Oxford's seems idiosyncratic, not the model (in spite of the commission's tendency for history courses in British universities to be determined by period and place rather than by the natural boundaries of a subject).

Ed tech funding

Sir,—Derrick Unwin's comments regarding the lack of Government funding for educational technology reported in your columns (*THE TIMES*, February 11) reflects a view that I find that part of the argument fails to grasp the essential truth. We do not want, nor do we need, "educational equipment... leading developments".

Without going into the variety reasons why educational technology has made slow progress in Britain (for example, customer resistance and an inability of researchers to communicate with decision makers, and so on) it should be made clear that investment in technology per se is not an answer. Have we not investments in close circuit television made in the early 1970s which are not better, example of misplaced faith in the power of capital and technology to solve educational problems.

It would be foolish to imply that we are overfunded. We are not, but we are as Unwin goes on to point out short of a theoretical base.

Yours faithfully,
RAYMOND McALEESE,
Editor,
Programmed Learning and Educational Technology,
Department of Education,
Aberdeen University.

Future of physics

Sir,—I was, naturally, excited to read your lead article (*THE TIMES*, February 4). The Physics or well as declining number of students in physics in departments of polytechnics and see talking on the lines you suggest. We have for example, produced a leaflet for use in schools which has been received and over 2000 copies have so far been distributed, giving a good illustration of the diversity of preparation.

It should be recognized that there has been no shortage of numbers taking A-level in recent years and that English and mathematics are a level entries. What is happening is that more and more students are studying physics for other reasons. This emphasis on the subject of engineering and other physical sciences.

While we in the Institute of Physics are not an excellent education, we are not an important that we have kept alive by research activity and grounds for concern on the part of the Institute.

Yours faithfully,
LOUIS COHEN,
Executive Secretary,
The Institute of Physics,
47 Belgrave Square, London.

Role of manufacturing

In this medium-term, there is a need for the professions related to industrial technology, including both engineering and scientific professional bodies, to review their education and training philosophies and standards, and to ensure that these are relevant to our long-term needs.

It is sometimes argued that employers of professionals should be the main force for reform of professional education and training; if this is so, then Government—which is now one of the largest employers of both engineers and scientists—is in a key position to encourage reform in appropriate areas.

Education will have a long-term impact on industry, and in particular on manufacturing industry. If "education" can understand the role of the manufacturing function and the need for this in a modern industrialized society, we cannot touch the relevance of the manufacturing function solely in terms of the need to meet the demands of a consumer society.

Our serious national position is the result of "cumulative" causation; no single factor is wholly responsible.

When we consider the implications these problems have for higher education, there is an immediate danger that institutions of higher education will be perceived only in terms of short-term problems. It is much more important that educational institutions think most deeply about the longer-term issues.

This is so for at least two important reasons: first, education of people is inevitably a process requiring more than a second moment of the research and many of the new concepts emerging can only have a long-term impact on industry.

In the short term, and over the next two to three years, it is perhaps most important that teaching in higher education studies the strengths of our industrial economy. All too often the debate on the industrial situation has focused on the weaknesses of our industrial economy, and on the remedial actions which are needed to eliminate these weaknesses.

There is a serious danger in this that the strengths of our industrial economy are neglected, and that institutions of higher education may fail to support these in the longer term. Whereas, in the short term, it is government support of the Training Services Agency which are needed to eliminate these weaknesses.

At the moment, we have to admit that throughout the country in Britain, the role of productive industry in building up national wealth is very misunderstood. Since the Second World War, schoolteachers have been very successful in bringing new concepts into their teaching; young people are only too conscious that their own future depends on their own efforts. The need to conserve the environment and the importance of social welfare in a humane society.

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Industrialized countries of the world, Britain produces one of the largest proportions of science and engineering graduates of any country.

It is very questionable whether our present problems have much to do with the numbers of graduates the universities and polytechnics are producing. Rather it is about the attitudes of stufts of universities and polytechnics, and thus of their students, towards industrial technologies, towards production, manufacture, service industries and so on; this is the fundamental problem facing higher education in the long-term.

Postgraduate education

What are the main points emerging from this discussion? I would summarize them as follows:

1. In the present "crisis" situation, there is a danger of higher education over-reacting to the problems of industry, to a point where short-term needs may dictate long-term policies, and higher education only limited responses are possible in the short-term, and although these are important and indeed higher education should react quickly, the likely short-term impact of higher education on the industrial scene is limited. However, this does not mean that some steps cannot be taken immediately which could have long-term effects both for industry and higher education.

2. There is a need to sustain and develop our present strengths in industrial technology and for the country not to be obsessed simply with overcoming weaknesses. Many of our present policies in higher education are essentially remedial in character and some of these could, anyway, be wised; for some of our problems there may be no remedies. It would be unfortunate, in this climate, if we were to neglect the strengths of our industrial technology and of those areas of higher education which sustain them.

3. Present attitudes in higher education do not help higher education institutions to play a really effective role in industrial technology in Britain. Many educationalists have cynical views of industry and particularly of manufacturing industry. Moreover, their teaching does not encourage flexible attitudes to employment in the later careers of graduates. Higher education in the future will need to work more closely with industry in teaching, research and dissemination. It will need to do this not only through the present structures within higher education, but through the wider use of specialized units for these purposes.

4. There is a need for a more effective national organization in higher education of both science and engineering. In particular, there is a need for a major reform of postgraduate education in science and engineering, and for this to be related to long-term manpower needs in a more realistic way than is presently the case.

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BOOKS

Aboard the culture bandwagon

Approaches to Popular Culture edited by C. W. E. Bigsby

Approaches to Popular Culture follows hard on the heels of an even more heterogeneous collection of articles, also edited by C. W. E. Bigsby...



Culture clash? The Salvation Army plays to people queuing for the Windsor Pop Festival in August 1971.

In one or two articles the vital distinction between "culture" as art and entertainment, and "culture" as the general way of life...

This essay is followed by Raymond Williams, weighty and ponderous, on "Communications and Cultural Science".

Necessarily? Could there not be national popular culture? And while "popular culture" as a metaphysical universal...

and popular culture, where they are only the consumers of a commercial product. To put it another way, Barlow's way...

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BOOKS

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Contemporary Political Philosophers

EDITED BY ANTHONY DE CRESPIGNY AND KENNETH MINOGUE
Contemporary Political Philosophers is a survey, by scholars from both sides of the Atlantic, of the main developments of twentieth-century political philosophy. It seeks to fill a long-acknowledged gap and does so with conspicuous success. This book will be welcomed both for providing access to a body of work not easily approached by the unguided explorer, and for offering a critical review of particular interest to those already familiar with the work of these philosophers.

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BOOKS

Theory and practice

Considerations on Western Marxism by Perry Anderson
New Left Books, £1.00
ISBN 902 308 67 X

This is a very bad book on an important subject. Whereas Mr Anderson's two earlier books, *Passages from Antiquity to Feudalism* and *Lineages of the Absolutist State*, display, for all their Marxist orthodoxy, a superb mastery of massive material, brilliant powers of composition, and a lucid style, this one first displays arrogance. It is dogmatic, shallow, self-confirming, pedantic, and curiously contending—both towards the reader, who is told only in an afterword that the author himself regards his whole text as basically flawed, and towards the ostensible object of Mr Anderson's concern, the "international working class".

Anderson takes it for granted that, or some—unspecified—level, the Marxist slogan of "the unity of theory and practice" expresses a self-evident truth, and proceeds to present the following picture. The "classical tradition" of Marxism extends in two phases—a Western and an Eastern—from Marx and Engels to Lenin and Trotsky. The founders of Marxism, who constitute the (first) Western phase, had remarkably little contact with working-class movements and organizations in either the England in which they lived or the Germany in which they were most especially interested and largely confined themselves to corresponding with fellow-bourgeois militants.

The reason Anderson gives for the remoteness of original Marxist theory from proletarian practice is that the revolutionary upheavals of the time were largely urban and peasant, rather than proletarian in character, while "the real emergence of industrial working-class parties occurred after Marx's death". Two questions immediately present themselves: how was Marx able to sketch a theory of proletarian revolution in the absence of a revolutionary proletariat? And what are we to make of the fact that, when they did arise (which they did, as they did well before Marx's death), the industrial working-class parties were not conspicuously Marxist let alone revolutionary? These questions, which seem central to any serious assessment of the relationship between Marxist theory and proletarian practice, are not even raised. Instead, we are told that the evident gap between theory and practice



Engels (left) and Trotsky: Western and Eastern Marxism

was really their unity, though this unity was "unseen and unmediated". To return to Mr Anderson's narrative, he writes that "the rapid growth of working-class parties in Central and Eastern Europe and the stormy rise of popular rebellions against the autocratic régimes of Eastern Europe" were the conditions for a new type of theory, based directly on mass struggles of the proletarian and integrated nature of proletarian organizations. The phrase "mass struggles of the proletariat" obscures the striking fact that these were largely artisan and peasant movements against pre-industrial propertied classes and autocratic régimes, rather than massive proletarian uprisings against industrial capital and bourgeois rule—remarkably similar, indeed, to the upheavals which had occurred in Marx's lifetime. What was new was not so much the practice as the theory: Lenin extended the Marxist theory so as to make it relevant to a predominantly agrarian society. Moreover, Lenin knew how to turn theory into propaganda, which is one important way of linking theory with practice. Anderson does not trouble to analyze the fact that Lenin somehow managed, for a brief moment in 1917, finally to link a doctrinally revised Marxist theory with the actually revolutionary practice of industrial workers, peasants and factory workers.

Mr Anderson sidesteps these issues and moves on, instead, to his main topic, "Western Marxism". In the period since the Bolshevik Revolution and the abortive revolutions which the Russian and East European, here he pursues a truly remarkable strategy: he identifies "Western Marxism" in terms of the intellectual careers of a number of academic or semi-academic philosophers—men such as Lukács, Adorno, Marcuse, Sartre and Althusser—and then reveals that

in Western Europe since the World War European became, and philosophical, with the exception of Gramsci and the Marxist theorist cited by Anderson, immediate or prolonged involvement with the working or revolutionary class was not a major concern, save in Marxist economic theory, ignored, or noticed only a minute.

The only interesting idea in his characterization of Western Marxism is that Lukács, Marcuse, Sartre and Adorno were standard bearers of the New Left, which Mr Anderson is at pains to surmise that his discovery that these thinkers are utterly remote from the proletarian revolution or even sympathy with it is not a major concern of a world-historical juncture; but such price as he attaches to the fact is a mere excuse for turning a few meagre pages into a polemic.

A small clue to the feeling in which Mr Anderson is written by one of his chief ideas. He observes that "all the major theories of the materialist in date... intellectuals drawn from the working classes... and so on". It is impossible not to see a pattern of provocation in the international working class, which, in a world-historical sense, is the only group that can be said to see in this pattern a clear immaturity of the proletarian internationalist Marxism which is the only alternative which sees in the working class the main force for the achievement of socialism.

Heidi

Political violence in reality

Three Essays on Political Violence by Ted Honderich
Duckworth, £4.50
ISBN 0 631 17040 5

The declared object of these essays is "to induce, with an open mind, into the morality of political violence, or really, political violence of the Left". To this end Ted Honderich opens his inquiry by considering the very different attitudes taken by the most middle-class persons towards the facts of political violence and the facts of social inequality which it is the aim of the violent Left to destroy.

Honderich believes, as do I, that much political theorizing suffers from a fundamental failure to relate life to the crude, hard facts of the centre of the normally fact-free philosophic stage the bitter realities of other men's truncated existences. The poor and black in rich societies live shorter lives than the rich and white; with the latter being two full lives for every single life of the poor in the poorest countries. "Time alive", Honderich rightly insists, "is not all that matters, but it matters very much indeed". It matters in terms of the individual human experience of time

of millions of persons, who too would like to live as long and as well as the readers of the *Times*.

In so far as we are aware of the facts of inequality we accept them. Honderich argues, as a familiar entrenched feature of the existing order within which we live; not as the direct outcome of deliberate action by "agents of inequality". Political violence, on the other hand, is far most of us something quite out of the ordinary run of our experience, perpetrated by identifiable persons or groups, as a challenge to the existing order. It constitutes a frightening threat to the familiar ways of life, and possibly to our very lives. Such a contrast of response, Honderich claims, is essentially irrational. In judging violence directed at the removal of inequality our concern should be with the respective sufferings of the victims of inequality and violence, and with the probability of the violence being successful in relieving its aim.

Honderich takes the argument a stage further in his third essay on the democratic violence of persuasion which distinguishes from the undemocratic violence of coercion. The former, unlike the latter, is directed to the overthrow of the democratic system, but seeks to redress the balance of political influ-

ence on behalf of the many against the few.

A brief review necessarily omits a number of the arguments used by Honderich to support his main thesis, but enough has been said to indicate its importance and the nature of the issues it raises. It is always difficult to get the right balance in multiple-author books, and this one is no exception. Some of the authors make an attempt to study the relations of movements and political parties, and the interaction of movements and political systems, i.e. to do what we are told by the editors to be the main objective and distinctive approach of the book. Kallós, Pridham, Althea, Paterson and Smith all make some effort to work within the bounds laid down by the editors, but, as Hino wisely admits in his essay on trade union movements in France and Italy, the distinction between "movements" and "parties" is both politically and socially, is often far from clear. Perhaps it would have been best if all the authors had read the *Itinerary* on movements and Smith's essay on political and social movements before writing their own

L. J. Maclean

BOOKS

Martial weakness

The Politics of the Italian Army by John Whitlam
Croom Helm, £7.50
ISBN 0 208 0197 3

The role of the military in politics has been covered as an aspect of the development of most modern European states, although a major exception to date has been a study on Italy. This may not seem a surprising omission, since the Italian army has no obvious claim to fame even considering its role in the Risorgimento, but as John Whitlam shows in his carefully documented study the reasons are more varied and complex than are suggested by clichés about the Italian lack of fighting spirit.

He focuses on Italy's military performance in successive wars during the period from the Risorgimento to the First World War, and sets it in the context of internal political developments in Italy as well as international events. The result is a solid contribution to the early history of the Italian state.

His book discusses many aspects of the Italian army's role from its state of organization following repeated attempts to reform and modernize it and its quality of

leadership to its importance as a factor in Italian foreign and colonial policy. The army's war performance was repeatedly inhibited by organizational deficiencies and the lack of available economic resources to sustain a prolonged military effort, although Italy's military strength was not often wasted for reasons of prestige ventures abroad—with fatal consequences in the Libyan War of 1911-12, after which Italy had little time to reorganize her exhausted forces before the advent of the First World War.

The fundamental reason for Italy's martial weakness emerges from this blow-by-blow account of her military affairs, namely her general absence of military tradition. It was evident in the difficulties of public opinion and of most politicians towards the military establishment, but a curious reflection of it was the regular tendency to national self-chastisement even among army leaders following military setbacks (such as the *Ustica* in 1866, *Adria* in 1896 and *Caporetto* in 1917) to mention the obvious examples. It was these defeats rather than any real achievement which the army which created national mythology.

This lack of militarism meant that despite political instability in the generation after unification the military never presented any serious challenge to the governmental

leadership. There were few signs of contempt for authoritarian institutions, for army leaders maintained a professional distance although some of them acquired high civilian positions in government. Whitlam suggests that they were recognized as part of the same established elite as the political leaders of the time.

Apart from the discussion of the army's activities in maintaining public order in the disturbed South during the 1860s, the question of its contribution to the political development of the new Italian state is a topic crucial to the theme of the book; it is not really spelled out although touched on occasionally. Indeed, the few references to the difficulties of social cohesion in the army resulting from regional attachments cast a brief light on the nature of the problem. It is a pity in view of his interesting suggestion that these general themes are not given more prominence. Whitlam provides many insights into Italian affairs of the period but he lacks a clear interpretative framework, and a conclusion in the whole book. Although an excellent piece of thoughtful research, it will for reasons of readability not reach much outside specialist circles.

Geoffrey Pridham

From local to national identity

Nationalist Movements edited by A. D. Smith
Macmillan, £7.95
ISBN 0 333 38185 9

Nationalism: The Nature and Evaluation of an Idea edited by Eugene Kamenka
Edward Arnold, £3.95
ISBN 0 7131 5874 3

Inherent in the concept of a nationalist consciousness is the idea that individuals who historically have identified with local sub-cultures come to recognize that they are primarily members of the nation, rather than of their tribal, ethnic, religious or regional group. The definition of "national" characteristics, as both Kamenka and Smith emphasize, is hitherto made by members of socially unrepresentative "elite" groups, often as a result of the pervasiveness of the unity and political weakness of one social group in comparison with some already more highly organized entity.

Kamenka insists on the need to grasp the phenomenon of nationalism in all the complexity of its historical and social development. According to Smith, the main analytical problem is that of "the social penetration of nationalism beyond

the elites". None of the contributors really fares up to the problem's complexity. Most seem to subscribe to a diffusionist model of nationalist development. Integrating action in the form of propaganda and organization by elites, and that taken by the hurecrats of established states, combined with the development of a market economy to increase inter-regional contacts and the diffusion of universalist values including a national consciousness, within certain geographical limits. However, variations in the characteristics and aims of the local mobilizing agencies, and the spatially uneven development of modernization suggests considerable variation in the types of conditions which facilitate or obstruct national development.

Unfortunately, the contributors are mainly content to remain at the level of vague generalization and broad sociological categories: both of which lack an adequate basis in empirical research. The repeated reworking of the established categories of analysis does not seem likely to provide enlightenment. Broad social structural categories are inadequate for the analysis of cultural changes occurring within specific historical periods and localities.

Renée Warburton considers the cases of Switzerland and Canada,

especially the tensions arising in regions with self-conscious minorities aware of geographical inequalities in the distribution of wealth. He highlights the problems of the transmission of economic growth from dynamic to stagnant regions and the crucial importance of political autonomy as a means of controlling development.

Even the oldest established states face the problem of how to accept voluntarily greater autonomy for peripheral areas, their political agents might well be forced to go beyond normal political means. The long and continuing historical cycle of national integration and the creation of a bureaucratic state is thus likely in some areas to be modified by decentralization and, if this fails, by the disintegration of established entities like Canada and the United Kingdom.

Roger Price

Is it a movement or a party?

Social and Political Movements in Western Europe edited by Martio Kallós and William Paterson
Croom Helm, £9.95
ISBN 0 2564 550 8

It is always difficult to get the right balance in multiple-author books, and this one is no exception. Some of the authors make an attempt to study the relations of movements and political parties, and the interaction of movements and political systems, i.e. to do what we are told by the editors to be the main objective and distinctive approach of the book. Kallós, Pridham, Althea, Paterson and Smith all make some effort to work within the bounds laid down by the editors, but, as Hino wisely admits in his essay on trade union movements in France and Italy, the distinction between "movements" and "parties" is both politically and socially, is often far from clear. Perhaps it would have been best if all the authors had read the *Itinerary* on movements and Smith's essay on political and social movements before writing their own

pieces. Alternatively, it might have helped if Smith's conceptual essay had preceded, rather than followed, the various case-studies.

However, my main criticism of the book is that it falls between two stools. Either the introductory sections on the various political and social movements under discussion should have been more comprehensive, or the case-studies should have been. Two examples will suffice: Paterson's essay on the German SPD is interesting and informative, although the attempt to distinguish between the party and movement "dimensions" seems rather contrived in parts. But it is simply not good enough to cover the whole of the rest of European Social Democracy in less than one page. Likewise Kallós's chapter on the inter-war Fascist and Nazi movements in Italy and Germany is concise and comprehensive case-study, but why is there no empirical research on the "dimensions" of the "out-of-the-mainstream" and "radicalized" movements? On the other hand, Pridham and Smith in particular show that it is possible to put forward interesting and stimulating concepts without recourse to jargon.

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BOOKS

Why parties exist

Parties and Party Systems: A Framework for Analysis by Cleopatra Sartori. Cambridge University Press, £15.00 and £4.50. ISBN 0 521 21238 3 and 29016 2

Parties and Party Systems is the first of a two-volume work to which Professor Sartori has devoted most of the last 10 years. It is, indeed, the first major book on political parties for a generation, since, despite the vast number of new parties, new countries, and new parties in these countries, no comprehensive book as yet has replaced Duverger's classic of the early 1950s, Political Parties. Indeed, since the first volume of Professor Sartori's work does not cover internal party structures but concentrates on the rationale for the existence of parties and on party systems, Duverger's book is still not superseded. But a party system we now have a more sophisticated and more modern classification.

Little emphasis is given to electoral systems (even perhaps too little); emphasis is placed on a complex distinction between types of systems of more than one party—and not on the old distinction between two and multi-party systems. Yet, despite its wider and updated coverage, the work suffers from three major defects. First like Duverger's book, it concentrates too much on Europe and North America; altogether there are seven pages on Africa in a book of over 350 countries such as Costa Rica, Venezuela, or Sri Lanka, which had long periods of "competitive" party development are not mentioned of all wide Iceland (200,000 inhabitants) and Luxembourg (400,000) are referred to in a number of instances. The work may not be ostensibly devoted to Europe and North America; it is documented by examples from, and concentrates on, problems and developments of these areas.

Second, the work has an almost exclusively institutional scope. There is little on the socio-economic environment in which parties operate. The first part examines "why" parties exist, but the "why" is entirely given in terms of "mercantile" or "pre-rational" reasons; parties are said to be channels of expression—but what they are expressing is not being examined. The classification of party systems into two, moderate pluralism, unipolar pluralism, is interesting and revealing; but we are not told why this happens. We do not know why the party systems of Sweden or Norway are different from those of Britain; even more serious, we are never given any reasons for the existence of large Communist parties in countries such as Italy, France or Finland—surely a serious limitation. As long as it was believed that the number of parties was somehow mainly the result of a given electoral system, there was at least an element of explanation; if this argument is longer put forward, broad social explanatory "variables" need to be given.

The third limitation is perhaps the most serious. Despite the fact that much evidence is presented, the book is in many ways an ideological work. It is more ideological than Duverger's was. Professor Sartori does not like single-party systems; he does not like Communist parties—either of the "Stalinist" variety or of the more like African parties, which he feels are weak and have led to an "African labyrinth". He is entitled to his likes and dislikes; but these do reduce the scientific character of the work. The

lead to gross exaggeration of the "express" while the truth in the distribution of power would require a more sophisticated and more sophisticated work to state that the "express" is the "pre-rational" or "mercantile" or "pre-rational" reasons; parties are said to be channels of expression—but what they are expressing is not being examined.

Thus we are left with an impression of a party moderate pluralism, unipolar pluralism, is interesting and revealing; but we are not told why this happens. We do not know why the party systems of Sweden or Norway are different from those of Britain; even more serious, we are never given any reasons for the existence of large Communist parties in countries such as Italy, France or Finland—surely a serious limitation. As long as it was believed that the number of parties was somehow mainly the result of a given electoral system, there was at least an element of explanation; if this argument is longer put forward, broad social explanatory "variables" need to be given.

It is also true that some of the more effective and precedent critics of radical Unipolarism described by O'Sullivan, such as Constant and Tocqueville or the social market school, would usually be classed as liberals. For though they share with conservatives a scepticism about the perfectibility of man, and still more about his capacity for rational improvement through collective action, they do not share the tutelary or paternalist tendencies of most conservative churches, conservatism or compulsory moral education. The difficulty about older conservatives from O'Sullivan's point of view is that they generally want something grander and more fundamental in the way of authority or community, however derived, than the habits of political practice.

This problem reveals itself in the three main chapters of the book on French republicanism, German Romanticism and English conservatism. Mr O'Sullivan handles the first two very well in the manner of the history of ideas; that is, by linking a succession of writers together by theme which he does neatly. He is a good expounder and effectively critic. By contrast, what he himself calls the intellectual messiness of English conservatism does not yield to this method.

There is not much mileage in the exposition of Disraeli's half-baked fantasias and to get at the relation between the thought and action of practising politicians requires much more attention to context than O'Sullivan has space for and a better basis than second-hand political history. The result is a catalogue of writers and statements of uneven merit and interest: which does not hold together.

The implicit theme is in fact the loss of any distinctive conservative ideology and a drift into the acceptance and defence of liberal positions by those who call themselves conservative in politics. The conclusion one is obliged to draw is that the only true conservatives are English conservatives and that English conservatism is not really conservative at all but sceptical, pragmatic, pragmatic, old-fashioned liberals.

Howell's account of the Party, although it is laudatory, involves a number of difficulties. First, it is not clear that the movement he detects at the top of the party much before the 1930s. Second, I do not believe that a timid, parliamentary style of politics emerged after 1931 and it can certainly be said before then, indeed, in more detail than Howell says, that the Party since at least the 1930s the same is true of reforming social democracy as it would be of reforming social democracy. Remedies to the problems included: ecological, the singer group, reform, wilderness, extra-parliamentary action, and, in the case of a realization that the existing power structure was generated on a very limited basis, it is as many would say, power structure of the most influential, the Labour Party, HONE?

In this predicament the immediate response in the early 1950s was to boast about 1945-51 and as a corollary adopt a "consolidationist" posture: a bit more of the same. The electoral failure of this tactic led to the revisionist, post-involvement acceptance of the mixed economy, a new emphasis on educa-

BOOKS

Mixed bunch

Conservatism by Noel O'Sullivan. Dent, £4.50 and £1.75. ISBN 0 460 16631 7 and 11631 2

The Conservative Opportunity edited by Lord Hare and John Patten. Macmillan, £7.95 and £3.95. ISBN 0 333 19971 5 and 19972 3

Conservatism, on Mr O'Sullivan's definition, is a reaction to the Utopian claims of the Enlightenment and the French Revolution, and is more or less limited to the NATI. Even so conservatives from one to another range from the Minister in Daniel Bell, and they have an undisciplined habit of slipping away from the commitment to limited constitutional government which O'Sullivan sees as the essential of intelligent conservatism. Indeed O'Sullivan does not pay much attention to the constitutional debates which preoccupy nineteenth-century politicians, but concentrates on the more profound origins and abstract theories of unaccountable, which ideas so often tend towards an apolitical and reactionary Utopianism.

It is also true that some of the more effective and precedent critics of radical Unipolarism described by O'Sullivan, such as Constant and Tocqueville or the social market school, would usually be classed as liberals. For though they share with conservatives a scepticism about the perfectibility of man, and still more about his capacity for rational improvement through collective action, they do not share the tutelary or paternalist tendencies of most conservative churches, conservatism or compulsory moral education. The difficulty about older conservatives from O'Sullivan's point of view is that they generally want something grander and more fundamental in the way of authority or community, however derived, than the habits of political practice.

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James Cornford

BOOKS

ILP history

Dictionary of Labour Biography, Volume III. Edited by I. M. Bentley and John Saville. Macmillan, £20.00. ISBN 0 333 11115 7

Political biography is at once the most attractive and the most treacherous area of the historian's craft, involving concentration on major figures, highlighting certain episodes and administrators at the expense of others, and forcing the disparate mass of men and events serving political movements into a subordinate context, tailored to the needs of individual lives. The history of the trade union movement, for example, has been dominated by the biographies of J. H. Thomas, Arthur Henderson, Walter Citrine and Ernest Bevin; yet, however much these seem to have typified their times, the matrix of their lives, within whose friendships, rivalries and hostilities their activity was conditioned, has been correspondingly obscured. In redressing this balance, the third volume of the Dictionary of Labour Biography reinforces the success of its predecessors in illuminating the density and complexity of the matrix.

For the sound reason that biographies are written on completion by the research team at university, the chronology of entries stretches across a wide period within a few very general themes, in this case chiefly the early history of the Independent Labour Party and the middle period of the Miners' Federation. To some extent, the historian of the working-class movement can therefore only be satisfied when the project is complete; but what a lack in this case, in contrast with the other general volumes of the Dictionary of National Biography, is more than compensated by its depth of scholarship, breadth of local source material and meticulous editing, especially in the case of bibliographies, and the editors' own contribution of detailed subject bibliographies attached to key entries. Failing the full-scale studies which the new economics of publishing now postpone for many years, the DLB does justice in particular to the miners' leaders, Clem Edwards, Robert Smillie, and A. J. Cook—the latter, whether because of his inspired idea of not "raising, tearing Communist" of his opponents on the General Council, but as the authors describe him, that rare combination of skilled trade union negotiator and "gifted revolutionary agitator".

It is interesting to see how many of Bevin's supporters in the 1930s campaign against the Communist party were fortified by their long years of service on trade councils; and how, contrary to much of what has been written, the great majority of ILP members mentioned here had substantial trade union bases. Future volumes are, apparently, threatened, not only by the daunting price of £20.00, but by uncertainty about the grant on which the whole enterprise is financed. Publications as important as this for the study of British working-class history deserve all the reassurance that the SSRC can give; it will be tragic if continuity is not maintained.

Keith Middlemas

The ambiguity of social democracy

A Short History of the Labour Party, 5th edn. by Henry Pelling. Macmillan, £4.95 and £2.95. ISBN 0 333 19792 5 and 19793 3

British Social Democracy: A Study in Development and Decay by David Howell. Croom Helm, £6.95. ISBN 0 85664 124 3

Academic writing on the Labour Party and movement has enjoyed a long and continuing boom. Few aspects of Labour in and out of office lack analysis and it is difficult to think of even relatively minor episodes during the last century to which one or another scholar has not laid claim. Doubtless the recent liberalization of access to the party records will ensure the continuation of this happy state of affairs. Dr Pelling's Short History, now in its fifth edition, was first published in 1961. It takes the story from the 1880s up to the resignation of Wilson in March 1976 and, given the volume's relative brevity (167 pages), the pace is on occasion rather breathless.

Additionally one could quarrel with some of the author's judgments: whatever else it was in 1929-31, Snowden cannot be called a "broken reed"; Lansbury was certainly a pacifist but it needs a keen ear indeed to detect his "Marxist undertone"; and likewise the element of "Merxian Socialism" Pelling discerns in the 1918 policy statement, Labour and the New Social Order, appears only on the flimsiest of pages. This aside the volume is well presented and the organizing theme, the leadership problem in a party with such disparate traditions and cumbersome structure, is a sensible one.

Howell's thesis is not dissimilar although developed of greater length and with much closer attention to the newly available minutes of various executive committees of the party. Seen from the perspective of the parliamentary leadership the controlling problem is that of the numerically dominant trade unions, while the major external difficulty is winning elections when a segment of its "natural" support betrays the end votes Conservative. Un- the fiasco of 1931 the trick was worked by a combination of trade union loyalty to the party and the "cloudy rhetoric" of Macdonald. From 1931 onwards a "social democratic perspective emerged" from the nexus of "betrayal" and the return of men like Bevin and Citrine for reform within the broad structure of the existing society.

Howell traces in detail the emergence of a skeletal reform programme and concludes that by 1937 "these measures could be presented plausibly, as first steps in a social reform programme... yet the total set of proposals could be seen as a blueprint for increasing the efficiency and reducing the corruptions of the existing society".

Whatever their ultimate consequences helped to bind once more the unions to the party after their loyalty had been shaken by the events of 1929-31. Such reforms were carried through by about 1949 under the leadership of Attlee, Bevin and Morrison. Then the ambiguity of social democracy was revealed as involving a self-defeating amelioration of part of a consistent and coherent strategy of social transformation which indicated the relationship between reform and structural change.

In this predicament the immediate response in the early 1950s was to boast about 1945-51 and as a corollary adopt a "consolidationist" posture: a bit more of the same. The electoral failure of this tactic led to the revisionist, post-involvement acceptance of the mixed economy, a new emphasis on educa-

tion as the prime agency of change, together with an emphasis on the efficiency and technological change. Seen from the perspective of the parliamentary leadership the controlling problem is that of the numerically dominant trade unions, while the major external difficulty is winning elections when a segment of its "natural" support betrays the end votes Conservative. Un- the fiasco of 1931 the trick was worked by a combination of trade union loyalty to the party and the "cloudy rhetoric" of Macdonald. From 1931 onwards a "social democratic perspective emerged" from the nexus of "betrayal" and the return of men like Bevin and Citrine for reform within the broad structure of the existing society.

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NEW POLITICS BOOKS FROM YALE

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LETTERS TO THE EDITOR

Atkinson and libraries

My own calculations (including an element of guesswork) suggest that implementation of the Atkinson report's proposals could require a library which has already reached the limit of what it can do in the next 10 years at least 20 volumes per full-time equivalent student planned numbers 10 years ahead.

There are three specific areas where the loss in services this implies (and I might note here that the working party seems to have been concerned with quantitative to the exclusion of qualitative) of what is likely, I feel, to affect the educational standards of universities.

First, in the range of material available to the student. Because the criteria for withdrawal are those of use (ultimately the easiest), books which are little used will be withdrawn to a great extent.

Perhaps, before the University Grants Committee goes ahead with implementation of Working Party's proposals it would care to reconsider them in the light, not just of libraries, but of university education as a whole.

Yours faithfully,
IAN LDVCEV,
Deputy Librarian,
UMIST,
Manchester.

HNDs at Thames

Sir—Mr Gregson discussed *THIS* (January 28) some of the factors involved in the future development of the Diploma of Higher Education under the title "Should we accept the DipHE as one A-level entry course?"

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Thames Polytechnic is only one of many institutions which run HND courses and my particular school runs two and several degree courses which transfer to degree courses most practically every point made by Mr Gregson.

Those students at Thames Polytechnic whose performance is of a sufficiently high standard of the first year of the HND course are offered a transfer to the second year of the degree courses and most accept this (an average of about three per cent).

TEC and life sciences

Sir—Mr Tait has a few observations on the report of the TEC (January 29) on the meeting of the Technical Education Council, held in the afternoon of 14th February 1977.

It is ironic that professional associations should seek to improve their status. They frequently focus attention on the wrong point—the upper echelons—when it is the lower echelons which are the most important.

While the TEC courses must certainly be linked with other systems of education, TEC certificates and diplomas must never be seen as stepping stones or consolation prizes. Those achieving TEC qualifications are not failures on the route to a degree in pure science.

Yours faithfully,
A. K. D. CAMPBELL,
Tutor Librarian,
Institute of Education,
University of Keele.

The TEC minimum requirement is a minimum, and can be varied upwards. But higher entry requirements for specific programmes should be justified on realistic educational grounds.

Books in chains

Sir—In *The Times* (January 2) you published a photograph of our chained encyclopedias, cryptically captioned "Signs of the times?"

As this is a very small art school, we have a very small library staff. I am therefore unable to maintain really adequate opening hours. The chained Britannica and McGraw Hill Encyclopedia of Art are constantly available in a reading/study room for 12 hours a day, providing do-it-yourself reference service when the library is closed.

Our students are not, I must stress, unduly disheartened but they are inclined to be albeit minded, hence the chains.

Yours faithfully,
Derek Toynne,
Librarian,
Falmouth School of Art.

Reading engineers

Sir—We welcome Reading University's engineers to the second half of the 20th century. Clive Cookson's report (*THIS*, January 28) on the "existing development" of their links with local colleges of further education has been carried out for many years by polytechnic engineering departments.

It is, however, pleasing to see Reading making a conscientious effort to recognize the Ordinary National Certificate/Ordinary National Diploma route for engineers, as is done by many other universities.

Yours faithfully,
MICHAEL RUGMAN,
Department of civil engineering,
Portsmouth Polytechnic.

more letters page 14

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